

The state of the s

RCRA GENERATOR INSPECTION CHECKLIST

NJD0024449:

| Generator's Name: | | Monsanto Co: EPA I.D. # | | HJD002444933 | | | | |
|-------------------|---------------------------------------|--|--------------------|----------------|------------------|-----------|--------------|--|
| Gen | erator's Address: | Pennsylvania Ave, Contact: | | _D.s | _Donald Widdows_ | | | |
| | | Kearny, H.J. | • | | | | | |
| | | | | YE | <u>s</u> | <u>NO</u> | | |
| 1. | Does generator ha | ve an EPA I.D. number? | | (X |) | (|) | |
| 2. | Does generator st | ore material on-site? | • • | (|) | (X |) | |
| 3. | Is waste accumula | ted for more than 90 days? | | (|) | (X |) | |
| 4. | Does generator ma | nifest waste? | | (|) | (X |) | |
| 5. | Does manifest sho | w following information: | | | | | | |
| | a. Name, address | , I.D. of generator | · | (_X |) | (|) | |
| | b. Name, address | , I.D. of transporter | | (х |) | (|) | |
| | c. Name, address | , I.D. of designated facility | | (х |) | (|) | |
| | d. Name, of alte | rnative facility | • | (X |). | (|) | |
| | e. DOT waste des | cription | | (χ |) | (|) | |
| | f. Quantity of weight, number | raste-volume, r of containers | | (X |) | (|) | |
| | g. Signed certif | ication statement | | (X |) | (|) | |
| 6. | Does generator ma | intain manifest records? | | (x |) | (|) | |
| 7. | General Comments: During office in | terview: Claims no waste at thi | is time, they gene | erate | · 40-50 |) 55 gal | <u>:</u> | |
| | drums of tank bo | ttoms, 3 times/yr. containing p | phosphoric acid an | ıd aı | rsenic | | | |
| | During field insp | pection: found waste storage ta | ank full of waste | ars | enci s' | ludge, o | perat | |
| | were in the proce | ess of removing and filling dur | rms with waste. | | | | | |
| | • 4 | 10001 AM WYO 1 MAY Off 19 60 3 61 330 | | 1 | Brian : | ioran | | |
| | | 3 3 3 43 | Inspected By: _ | | | kinner, | <u>H.Q</u> . | |
| | | 6/320 | Data. | | 12/13 | 7/80 | | |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

RCRA TSD FACILITY INSTECTION CHECKLIST

| Σοπ | pany's Name: | Monsanto Co | | EPA I.D. | #: | NJdnn24 | 44933 | |
|-----|--|------------------------------|---|----------|-------------------|---|--------------|---|
| Com | apany's Address | Pennsylvani : Kearny, N.J | | Contact: | | Donald! | Tiddows | |
| | | | | | | YES | МО | |
| 1. | Does the faci | lity have an | EPA I.D. number? | | | х) | (|) |
| 2. | - | - | facility handle | · . | (|) | (|) |
| | Storer | | Treater | | Dis | poser | | |
| | Pile Drums Surface Tanks Subsurface Ta Surface Impou | nks ndments | Filtration Incineration Thermal Chemical Biological Other | | Lan Inc Sur | dfill d Treatm ineratio face Imp er | n oundmen | |
| 3. | Does the faci | lity generate | hazardous waste? | | (| ,)· | (|) |
| 4. | Does the faci Earthlone | lity transpor transports | t hazardous waste for them to SCA | ? | (|) | (X |) |
| 5• | | | ith general standa | | | .• | | |
| | a. Adequate Comments: | - | · | - | |) | (|) |
| | | | | | | | | |
| | b. Contingen Comments: | - | | | | X) | (|) |
| | c. Inspectio Comments: | | | | (| х) | (|) |
| | d. Personnel | Training | | | . (| х , | (|) |

i sa Maria

| e. Waste An Cόπments | alysis Plan | | (|) | , (X |) |
|--|--|-----------------------------|-------------|----------------------|------------|-----|
| | y Procedures | | (X |) | (|) |
| Comments | : | | | | | |
| g. Prepared Comments | ness and Prevention Plans | . ' | (X |) | (|) |
| Does the facilit | y use the manifest system? | | (X |) | (| |
| Does the facilit | y maintain manifest records? | | (X |) | (|) |
| Does the facilit | y have other environmental permits | ? . | (X |) . | (|) |
| a. NPDES | | | (|) | (| , |
| b. Air | | | (|) | (| |
| c. State identify | State Air Permits | | (X |) | (| |
| d. Otheridentify | | | (|) | (| .) |
| - | ous wastes handled and method for hosphoric acid wastes, most are recy | | | | | _ |
| | | | | | | |
| | | | | | | |
| General Comments Found~20 drums part 262.32. 0 | ; of arsenic sludge which were not ma perator admitted that drums were fil | rked or labe Ted on Mon. | led Dec. | as requi 75, 1980 | red u | nd |
| General complia | nce and housekeeping excellent | | | | | _ |
| 4.4 | | | | | | |
| | | Inspected b | у: | Brian ! J. Ski | | |
| | | Dat | e: | 12/17/ | 8 0 | |

NJD 002444933

R. Baker

APR 1 6 1931

CERTIFIER MAIL :-- IL RETURN RECEIPT REQUESTED

Mr. W. J. Boyla, Jr. Plant Manager Monsanto Company Pennsylvania Avenua Kearny, New Jersey 07032

Ra: Docket No. II RCRA-81-0102

150002444 933

Dear Mr. Boyle:

This letter is written in regard to the above referenced complaint issued to the Monsanto Company on March 10, 1981. The complaint cited the company for failure to comply with the provisions of 40 CFR \$262.34(a)(4). The complaint also contained an order requiring the company to comply with all applicable provisions of 40 CFR Part 262.

It has been determined by this Agency that, because Monsanto has acquired interim status as a treatment, storage and disposal facility, the requirements of 40 CFR \$262.34(a)(4) do not apply to those wastes that are being stored pursuant to the company's interim status. As a result, the Agency is withdrawing the complaint and compliance order. Should you have any further questions on this matter, please contact bruce Adler of my staff at (212) 264-9898.

Sincerely yours,

Julie Morales-Sanches Director Enforcement Division

cc: George J. Tyler, Director
Division of Environmental Quality
Hew Jersey Department of Environmental
Protection

bcc: Brian Moran, 2WA-SA
William Friedman, 2ENF-GE
Richard Baker, 2PM-PA
Douglas Farnsworth, (EN-335)

CERTIFICATE OF SERVICE

Ellen P. Palmisano

Clerk Stenographer

PH-PA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

In the Matter of

AND NOTICE OF OPPORTUNITY
FOR HEARING

MONSANTO COMPANY NJD002444933

Respondent. :

Docket No. II RCRA-81-0102

Proceeding Under Section 3008 of the Solid Waste Disposal Act, as amended.

COMPLAINT

This administrative proceeding is instituted pursuant to Section 3008 of the Solid Waste Disposal Act, as amended, 42 U.S.C. \$6901 et seq. ("the Act"). [Note: Among the statutes amending the Act is the Resource Conservation and Recovery Act, 90 Stat. 2795, P.L. 94-580 (1976).]

The Director of the Enforcement Division of the U.S. Environmental Protection Agency ("EPA"), Region II, Complainant in this proceeding, has determined that Respondent, Monsanto Company, has violated Section 3004 of the Act, 42 U.S.C. \$6924, and the regulations promulgated thereunder, as hereinafter specified:

- 1. Respondent owns and operates a facility located at Pennsylvania Avenue, Kearny, New Jersey 07032 ("the facility").
- 2. By notification dated August 11, 1980, Respondent informed EPA that it conducts activities at the facility involving "hazardous waste," as that term is defined in Section 1004(5) of the Act, 42 U.S.C. §6904(5) and in 40 CFR §261.3. By application dated November 19, 1980, Respondent requested a permit to conduct its hazardous waste activities.

- 3. On or about December 17, 1980, an inspection of the facility was conducted by duly-designated employees of EPA pursuant to Section 3007 of the Act, 42 U.S.C. §6927. Said inspection was conducted for the purpose of enforcing the EPA regulations for hazardous waste management, 40 CFR Parts 260 through 265 (published in 45 Fed. Reg. 33063 et seq., May 19, 1980), promulgated pursuant to Subtitle C of the Act, 42 U.S.C. §6921 et seq.
- 4. The above-referenced inspection revealed that Respondent's facility was being used for the generation and storage of hazardous waste.
 - 5. 40 CFR Part 262 sets standards for all hazardous waste generators.
- 6. 40 CFR §262.34(a)(4) requires that any hazardous wastes accumulated on-site prior to shipping be labelled and marked in accordance with the standards of §§262.31 and 263.32. At the time of the above-referenced inspection, approximately 20 barrels of hazardous waste were discovered at the facility which were neither labelled nor marked. Respondent is therefore in violation of 40 CFR §262.34(a)(4).

PROPOSED CIVIL PENALTY

In view of the above-cited violations, and pursuant to the authority of Section 3008 of the Act, Complainant herewith proposes the assessment of a civil penalty in the amount of seven thousand five-hundred dollars (\$7,500.00) against Monsanto Company for the violations specified hereinabove.

COMPLIANCE ORDER

Based upon the foregoing, and pursuant to the authority of Section 3008 of the Act, Complainant herewith issues the following Compliance Order against Respondent herein:

 Respondent shall at all times insure that all hazardous wastes generated and stored on-site prior to shipment are properly marked and labelled in accordance with the requirements of 40 CFR Part 262.

NOTICE OF LIABILITY FOR ADDITIONAL CIVIL PENALTIES

Pursuant to the terms of Section 3008(a)(3) of the Act, a violator failing to take corrective action within the time specified in a Final Compliance Order is liable for a civil penalty of up to \$25,000 for each day of continued noncompliance. Such continued noncompliance may also result in suspension or revocation of any permits issued to the violator pursuant to the authority of the Act.

NOTICE OF OPPORTUNITY TO REQUEST A HEARING

As provided in Section 3008(b) of the Act, and in accordance with EPA's Consolidated Rules of Practices Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22, 45 Fed. Reg. 24360 (April 9, 1980) (a copy of which accompanies this Complaint, Compliance Order, and Notice of Opportunity for Hearing), you have the right to request a hearing to contest any material fact set out in the Complaint, or to contest the appropriateness of the proposed penalty, or the terms of the Compliance Order. (Consistent with the provisions of Section 3008(b) of the Act, the hearing provided will be noticed and open to the general public, should you specifically request such a public hearing. In the absence of such a specific request, however, public notice of a scheduled hearing will not be published.)

To avoid being found in default, and having the proposed civil penalty assessed and the Compliance Order confirmed without further proceedings, you must file a written answer to the Complaint, which must include a request for a hearing. Your answer (if any) must be addressed to the Regional Hearing Clerk, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York, 10278, and must be filed within thirty (30) days of your receipt of this Complaint, Compliance Order, and Notice of Opportunity for Hearing. Your answer must clearly and directly admit, deny or explain each of the factual allegations contained in the Complaint, and should contain (1) a clear statement of the facts which constitute the grounds of your defense, and (2) a concise statement of the contentions which you intend to place in issue at the hearing.

The denial of any material fact, or the raising of any affirmative defense, will be construed as a request for a hearing. Failure to deny any of the factual allegations in the Complaint will be deemed to constitute an admission of the undenied allegations. Your failure to file a written answer within thirty (30) days of receipt of this instrument will be deemed to represent your admission of all facts alleged in the Complaint, and a waiver of your right to

a formal hearing to contest any of the facts alleged by the Complainant. Your default will result in the final issuance of the Compliance Order, and assessment of the proposed civil penalty, without further proceedings.

INFORMAL SETTLEMENT CONFERENCE

Whether or not you request a hearing, the EPA encourages settlement of this proceeding consistent with the provisions of the Act. At an informal conference with a representative of the Complainant you may comment on the charges and provide whatever additional information you feel is relevant to the disposition of this matter, including any actions you have taken to correct the violation, and any other special circumstances you care to raise.

The Complainant has the authority to modify the amount of the proposed penalty, where appropriate, to reflect any settlement agreement reached with you in such conference, or to recommend that any or all of the charges be dismissed, if the circumstances so warrant. Your request for an informal conference and other questions that you may have regarding this Complaint, Compliance Order, and Notice of Opportunity for Hearing should be directed to Bruce R. Adler, Attorney, General Enforcement Branch, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York, 10278, telephone (212) 264-9898.

Please note that a request for an informal settlement conference does not extend the thirty (30) day period during which a written answer and request for a hearing must be submitted. The informal conference procedure may be pursued as an alternative to or simultaneously with the adjudicatory hearing procedure. However, no penalty reduction will be made simply because such a conference is held. Any settlement which may be reached as a result of such conference will be embodied in a written Consent Agreement and Final Compliance Order to be issued by the Regional Administrator of EPA, Region II, and signed by you or your representative. Your signing of such Consent Agreement would constitute a waiver of your right to request a hearing on any matter stipulated to therein.

RESOLUTION OF THIS PROCEEDING WITHOUT HEARING OR CONFERENCE

Instead of filing an answer requesting a hearing or requesting an informal settlement conference, you may choose to comply with the terms of the Compliance Order, and to pay the proposed penalty. In that case, payment should be made by

sending to the Regional Hearing Clerk, EPA, Region II, a cashier's or certified check in the amount of the penalty specified in the "Proposed Civil Penalty" section of this instrument. Your check must be made payable to the United States of America.

DATED: New York, New York

March 9 , 1981

COMPLAINANT:

Julio Morales-Sanchez

Director

Enforcement Division

U.S. Environmental Protection Agency

Region II

26 Federal Plaza

New York, New York 10278

TO: Mr. W.J. Boyle, Jr.
Plant Manager
Monsanto Company
Pennsylvania Avenue
Kearny, New Jersey 07032

cc: George Tyler, Esq.
Director, Division of Environmental
Quality
New Jersey Department of Environmental
Protection

bcc: Brian Moran, 2WA-SW
William Friedman, 2ENF-BE
Richard Baker, 2PM-PA
Edward Kurent, (EN-338)

CERTIFICATE OF SERVICE

This is to certify that on the /c day of March, 1981 I served a true and correct copy of the foregoing Complaint by certified mail to Mr. W.J. Boyle, Plant Manager, Monsanto Co., Pennsylvania Avenue, Kearny, New Jersey 07032. I handcarried the original foregoing Complaint to the Regional Hearing Clerk.

ELLEN P. PALMISANO Clerk Stenographer



Monsanto

Monsanto Company Pennsylvania Avenue Kearny, New Jersey 07032 Phone: (201) 589-0350

August II, 1982

USEPA Permits Administration Branch 26 Federal Plaza New York, N.Y. 10278

Attn: Dr. Richard A. Baker

Dear Dr. Baker,

The Monsanto Company, Kearny, New Jersey plant, EPA facility ID #NJD 002444933, would like to discontinue being a permitted Hazardous Waste Management facility. We are currently operating as a hazardous waste generator and storage facility (for our own hazardous waste only). We will remain a hazardous waste generator but we feel we no longer need to be a permitted storage facility since it is highly unlikely that hazardous waste would remain at the facility, in storage, for more than 90 days.

If you require any additional information regarding this matter, please feel free to call at (201) 589-0350.

Sincerely,

J. E. Boller Chief Chemist

DK DER 8/10/81

Through the innovation and commitment of people involved in programs worldwide, we are fulfilling our environmental vision:

the Monsanto Pledge.

ENVIRONMENTAL
ANNUAL REVIEW

onsanto is a global enterprise composed of Monsanto Company and its subsidiaries. Monsanto Agricultural Company, an operating unit of Monsanto, makes high-value agricultural products such as *Roundup* and *Lauo* herbicides. Monsanto Chemical Company, also an operating unit, makes high-performance materials such as synthetic fibers for *Wear-Dated* carpet and *Saflex* interlayer for laminated glass.

The NutraSweet Company makes food products such as *NutraSweet* brand sweetener and *Simplesse* all natural fat substitute. Searle makes pharmaceutical products such as *Calan* for hypertension and *Cytotec* for the prevention of certain ulcers. Fisher Controls International Inc. makes industrial process control equipment:

Monsanto operates 90 manufacturing facilities in 24 countries and employs approximately 41,000 people. Monsanto Company has its world head-quarters in St. Louis, Missouri.

ABOUT THIS REPORT

This report describes Monsanto's environmental, safety and health commitments and progress toward fulfillment of the company's environmental vision as expressed in the Monsanto Pledge.

The data section, pages 17 through 23, quantifies Monsanto's environmental record and high-lights areas where more progress is planned.

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Monsanto

THE MONSANTO PLEDGE

he Monsanto Pledge is our vision of environmental responsibility. It shapes the on-the-job decisions of every Monsanto employee worldwide and guides the company in achieving its overall commitment to meaningful environmental, safety and health solutions.

It is our pledge to:

Reduce all toxic and bazardous releases and emissions, working toward an ultimate goal of zero effect;

Ensure no Monsanto operation poses any undue risk to our employees and our communities;

Work to achieve sustainable agriculture through new technology and practices;

Ensure groundwater safety;

Keep our plants open to our communities and involve the community in plant operations;

 ${\it Manage all corporate real estate, including plant sites, to benefit nature; and}$

Search worldwide for technology to reduce and eliminate waste from our operations, with the top priority being not making it in the first place.

LETTER FROM THE CHAIRMAN

- n 1990, the first year of operations under the Monsanto Pledge, we made good progress on our environmental commitments:
- Compared with 1987 levels, U.S. air emissions of toxic chemicals have been reduced by 58 percent, bringing us closer to realizing our target of a 90 percent reduction by the end of 1992 and an ultimate goal of zero. Projects to achieve our 1992 goal worldwide were identified and approved for start-up in 1991 and 1992.

"Although Monsanto
is making good
progress, we must
point out that
in several areas
we have a long
way to go."



- More than 400 projects were identified, and many have been initiated, to help achieve the general waste elimination goals adopted by the company's five operating units.
- We achieved our safest year of operations ever in 1990. But, tragically, we must report that we have already had two fatalities in 1991.
- We harvested our first crop of insect-resistant cotton, which has the potential to reduce by 35 to 40 percent the chemical insecticides currently used on this crop. We also began a technology-sharing program with scientists from developing countries to create a disease-resistant variety of cassava. Cassava is an important crop in many developing countries and is the third-largest source of calories in the world.

- We completed the most comprehensive well-water survey ever conducted in the United States. The results: More than 99 percent of the wells in agricultural areas were free of contamination by Monsanto herbicides. In 1991, we initiated the industry's first program to provide cleanup assistance.
- Community advisory panels are now functioning at 12 Monsanto facilities worldwide. These groups help bring the public's perspectives and concerns into plant operations.
- A 200-acre wildlife observation area was dedicated at Columbia, Tennessee, and planting of a 69-acre hardwood forest was initiated at our plant in Newport, Wales.
- Novel bioremediation techniques were tested, in search of a way to eliminate particularly difficult waste streams from manufacturing operations.

These are some of the facts and numbers showing our progress. Behind them lies a commitment by Monsanto's people to do the right thing and to ensure the growth and profitability of our business.

AN ENVIRONMENTAL VISION

We aspire to be one of the truly great industrial enterprises. To achieve that goal, our financial performance must be outstanding, and consistently so. Our environmental performance must be equally outstanding, and equally consistent.

Our environmental vision for the decade ahead is clear: We intend to deliver outstanding environmental performance in all aspects of our business. Our vision is based upon what our businesses need to prosper and succeed. Monsanto's ability to develop new products, enter new markets, sell our current products and operate our manufacturing facilities profitably depends upon continuous improvement in environmental performance.

That's the idea of the Monsanto Pledge, our commitment to all of our stake holders that we will protect the environment and maintain successful businesses.

THE MONSANTO PLEDGE

The Pledge, which we announced in January of 1990, incorporates models of environmental excellence that already existed within the company

and projected them as the standards to be achieved across Monsanto. At the core of the Pledge is our belief that the public grants us the right to operate every day. And every day, we must work to earn that right.

The Pledge recognizes that outstanding environmental performance isn't a cost of doing business, but is integral to our business success. It assumes that compliance with the law and our own worldwide guidelines is basic, wherever we do business. But the environmentalism embodied in the Pledge is far more than compliance. We believe:

- It is the right thing to do.
- It will help us take a more comprehensive and cost-effective approach to solving environmental problems. We are working toward having environmentally sound products and processes. We are striving to use raw materials safely with little or no waste, and to process these raw materials with little or no pollution. We will strive for products that can be reused or recycled at the end of their productive lives.
- It is good business good for all of our stake holders, including our customers, employees, shareholders and others. Improved environmental performance will result in greater manufacturing efficiencies and higher product quality. As we eliminate waste from our operations, we will also eliminate the cost of treating or disposing of that waste.

Thus the Pledge will help Monsanto create a competitive advantage in a globally competitive marketplace.

ENVIRONMENTAL COOPERATION~

The work ahead of us in realizing the goals of the Monsanto Pledge will be less costly and more effective if it is supported by a government policy that encourages the use of free-market incentives.

The detailed, inflexible regulations of past decades worked, though clumsily and at great expense, in achieving end-of-pipe treatment and control. But what was penalized was innovation and creativity. Today we need to unleash the creativity of people to achieve waste elimination at the source.

Through the Monsanto Pledge, we intend not only to be a leader in setting environmental performance standards, but also to work constructively with responsible groups using "whole solutions"— solutions to existing problems that don't create new ones—based on good science. Monsanto, other major corporations, environmental groups and all concerned parties share a stake in environmental responsibility. Together we must develop goals that serve society's total interests, now and in the future. By adopting an ethic of cooperation and trust, we will be far more successful in a shared pursuit of long-term environmental protection.

COMMITTED TO IMPROVEMENT

Although Monsanto is making good progress, we must point out that in several areas we have a long way to go.

For example, Monsanto is potentially involved in the cleanup of 76 federal Superfund sites in the United States. We are currently involved in groundwater cleanups at more than 10 locations worldwide, some voluntarily and some as a result of agreements with government authorities. In 1990, Monsanto had 99 chemical spills that were reportable to government agencies or involved plant communities within the United States. And, in January of this year, our Everett, Massachusetts, plant was penalized \$1 million for inadequately reporting wastewater discharges. This is just plain unacceptable.

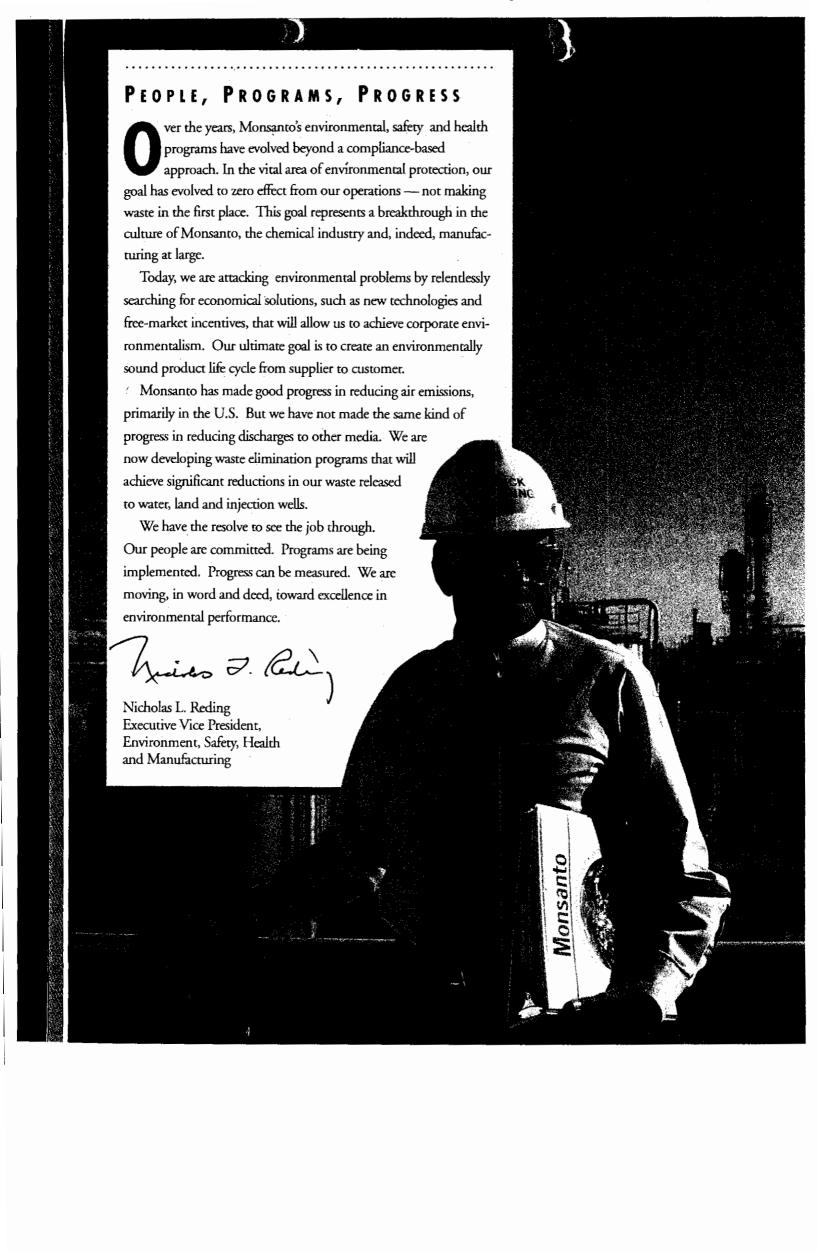
In spite of this, we are confident that Monsanto is on the right course for the long term. We are committed to continuous improvement in our performance, and we are publicly accountable for our actions. This report, our first annual review of our environmental programs, tracks our progress, and our setbacks, as we strive to achieve the Monsanto Pledge: to be part of the solution.

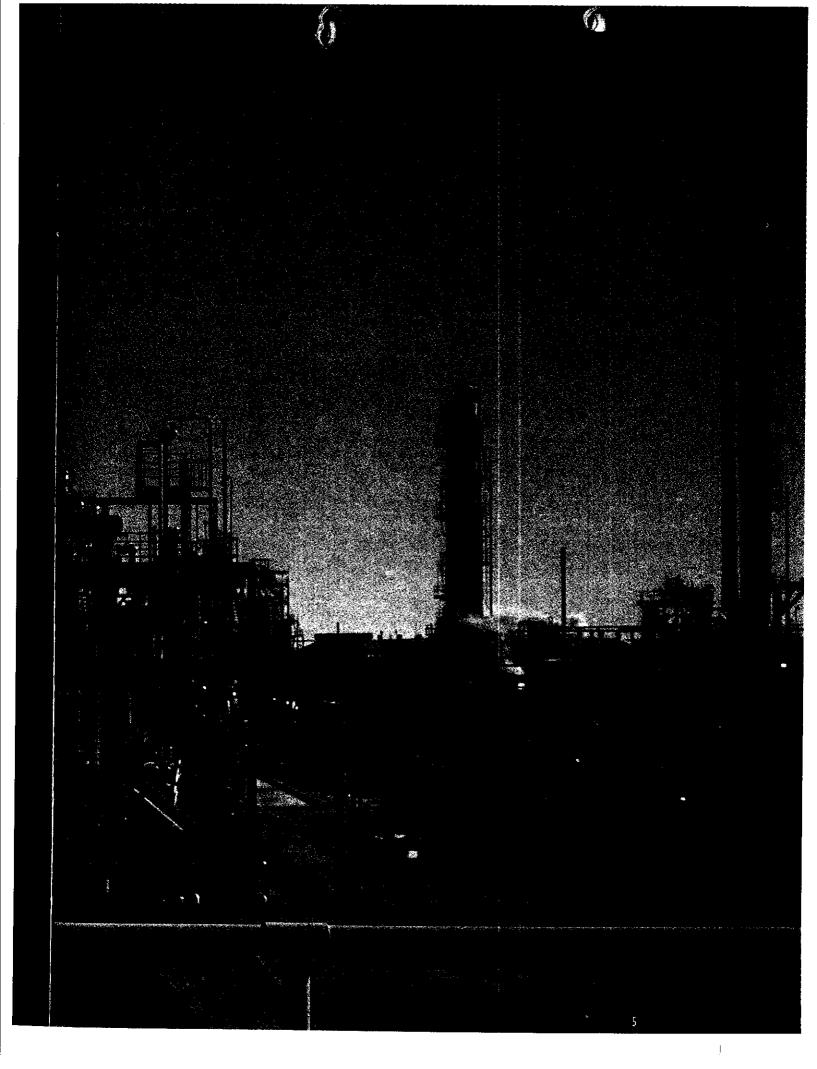
Richard J. Mahoney

Chairman and

Chief Executive Officer

Suchard Mahoren





hen the seven points of the Monsanto
Pledge were introduced, they heralded
a new era of corporate responsibility toward
environmental improvement. Almost immediately, that
promise began to be fulfilled.

People took the words to heart and breathed life into the Pledge with great imagination and spirit.

Programs sprouted in plants, labs and offices, guided by the foresight and ingenuity of employees at all levels.

Progress was immediate, documented and continuous.

This review is the first chapter in the continually unfolding story of the people, the programs and the progress of the Monsanto Pledge.

POLLUTION PREVENTION

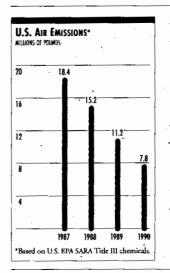
IT IS OUR PLEDGE TO REDUCE ALL TOXIC AND HAZARDOUS RELEASES AND EMISSIONS, WORKING TOWARD AN ULTI-MATE GOAL OF ZERO EFFECT.

onsanto announced a goal in 1988 to achieve a 90 percent reduction in air emissions of toxic chemicals worldwide by the end of 1992. In the United States, our 90 percent program will take emissions from a 1987 baseline of 18.4 million pounds to a rate of 1.8 million pounds by the end of 1992.

This program is based on a list of more than 300 chemicals named by the U.S. Environmental Protection Agency (EPA) under Title III of the Superfund Amendments and Reauthorization Act (SARA). After three years, our emissions of these chemicals in the United States had been reduced by 58 percent to 7.8 million pounds.

Although many of our large manufacturing plants are located in the United States, our com-

mitment to reduce air emissions is worldwide. In countries with regulations less stringent than those in the United States, our 90 percent program is still based on the SARA Title III list of chemicals. Where requirements are more stringent, we add locally designated chemicals to the SARA Title III list, which makes our 90 percent program even more comprehensive. Worldwide, we have reduced air emissions of these chemicals by 7.8 million pounds since 1987, and programs



Monsanto is targeting a 90 percent reduction in air emissions of toxic chemicals from 1987 levels by the end of 1992, with the ultimate goal of zero. Emissions from U.S. manufacturing plants have been reduced 58 percent since 1987, and programs are in place worldwide to achieve the 90 percent target.

are in place to achieve the 90 percent target.

In 1989, our agricultural and chemical units broadened this goal to include releases to land and water. We are now evaluating a worldwide corporate program to achieve a 70 percent reduction of high-priority manufacturing waste released to all media, including air, water and land. Our ultimate target is zero effect.

An important part of this effort is a new program to minimize the use of underground injection wells. Under this initiative, Monsanto is planning to eliminate high-priority wastes sent to underground injection wells by the end of 1999. This waste elimination program will continue to be refined in 1991.

Our preferred solution is to avoid waste generation in the first place. To that end, approximately 40 percent of our current environmental spending goes toward the elimination of waste at the source or toward recycling projects. That percentage is likely to increase as new technologies emerge.

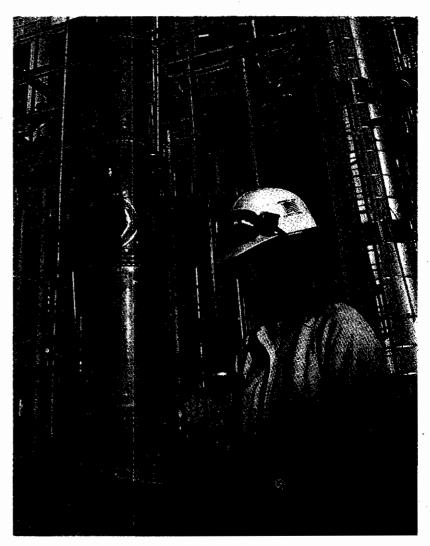
While the pledge to prevent pollution applies worldwide at Monsanto, applications are unique



The Izaak Walton League of America awarded Monsanto its 1990 Honor Roll Award, citing our program to reduce air emissions of toxic chemicals by 90 percent by the end of 1992.

to each location. For example:

- In Pensacola, Florida, an engineering modification to two pollution control systems for our nylon fibers plant resulted in a 95 percent reduction in this source of emissions.
- In Antwerp, Belgium, a new incineration facility at our chemical plant eliminated the use of incineration at sea. The system allows reuse of hydrochloric acid formerly released into the environment.
- In Nitro, West Virginia, a modification in raw materials in a rubber chemicals process reduced the facility's air emissions of toxic chemicals by more than one-third.
- In Chocolate Bayou, Texas, we found a way to use waste chemicals in the manufacturing process, reducing organic discharges to the environment by almost 5 million pounds a year, while increasing production capacity by 20 percent.
- In Augusta, Georgia, a plant incinerator operared by our pharmaceutical subsidiary was improved so much that off-site waste disposal was eliminated.
- Also in Augusta, Georgia, we started using flammable process wastes as fuel in plant boilers operated by our food products subsidiary. Waste now generates 30 to 40 percent of the site's steam needs, and disposal costs have dropped.





Iowa, employees have made "zero effect on the environment" a personal target.

They formed teams to identify problems and solutions. They held meetings that ran into late evenings and recon-

vened on weekends. Work group by work group, they rethought the way everything was done in the plant. The target: zero bazardous waste.

The ideas rolled in. For example, the plant had been disposing of 235,000 pounds per year of absorbent material used to soak up oil that leaked out of machinery. Today, reusable absorbent pads do the job. More than 30,000 pounds of oil are now recovered and recycled into fuel oil annually.

With ideas like this, the Marshalltown plant has already achieved a 90 percent reduction in hazardous waste, a 55 percent reduction in air emissions of toxic chemicals, and a 40 percent reduction in landfill trash. And this is just one example of what's happening throughout Monsanto as our people begin to live the Monsanto Pledge.

Wendy Kramer, an engineer at our Pensacola plant, belped increase efficiency of two pollution control systems by 95 percent. Emissions of cyclobexane are captured in oil, then separated and recycled.



2.0 1.6 1.50 1.41 1.26 1.2 0.90 8 4 1986 1987 1988 1989 1990 "Number of injuries/illnesses per 200,000 hours worked. Excludes NutraSweer and Searle.

Monsanto's rate of work-related injury and illness has decreased by 40 percent over the past five years. 1990 was our safest year ever.

Monsanto plants maintain highly trained
24-bour emergency
response teams that are
poised to react to a
leak, spill or accident.
The teams are routinely
drilled to accomplish
their first priority: to
minimize risk to employees and neighbors.

SAFETY MANAGEMENT

IT IS OUR PLEDGE TO ENSURE NO MONSANTO OPERATION POSES ANY UNDUE RISK TO OUR EMPLOYEES AND THE COMMUNITIES IN WHICH WE OPERATE.

ne of the main objectives of our safety initiative is to prevent the accidental release of materials and energy from our facilities.

But Monsanto's safety efforts extend well beyond preventing accidents; safety today encompasses risk management and the empowerment of employees to create an injury-free environment.

As a result, our occupational injury and illness rate is among the lowest in the chemical industry, which has historically been credited as a safety leader. Monsanto also stresses safety among our contractors, which results in contractor safety performance that far exceeds that of their peers.

Our safety record is built on routines and processes designed to cover every aspect of operations. An example is our risk management program for high-hazard materials, which was started in the mid-1980s. Under this program, we regularly review the safety measures of each plant worldwide that handles and processes highly hazardous materials.

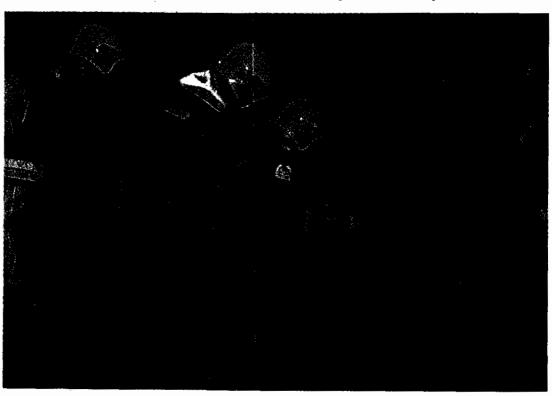
These audits have resulted in improvements in manufacturing, handling, storage, transportation, emergency response and training. For example, during one of these audits we identified unacceptable risks associated with chlorine handling. Those risks were reduced through upgraded facilities and the adoption of a just-in-time inventory strategy.

In another instance, we produce a chemical intermediate for herbicide production, which requires a high-hazard material. We are changing the process to reduce the need for the high-hazard chemical, thereby eliminating the transportation of 20 million pounds of this material annually.

This same diligence extends to the use of our products after they leave the plant. A new satellite tracking system and specially designed trailers with on-board emergency response materials help ensure safety during transportation of phosphorus pentasulfide.

A program known as D.E.T.A.I.L., for Dealer Environmental Training and Information Library, teaches safe agricultural chemical handling and environmental practices to Monsanto sales representatives and their customers around the world.

Additionally, we voluntarily conduct toxicology and safety analysis of products and intermediates to help ensure that our products can be



manufactured and used safely, without undue risk to the environment. Our long-standing commitment to product safety includes investment of more than \$10 million per year for toxicological testing and active involvement in key industry organizations such as the Chemical Industry Institute of Toxicology.

Monsanto recognizes that our safety performance must continually improve. We are dedicated to making continuous safety improvement a reality.

SUSTAINABLE AGRICULTURE

IT IS OUR PLEDGE TO WORK TO ACHIEVE SUSTAINABLE AGRICULTURE — THE PRODUCTION OF HIGH-QUALITY, SAFE, ABUNDANT AND AFFORDABLE FOOD SUPPLIES THROUGH ENVIRONMENTALLY SOUND METHODS.

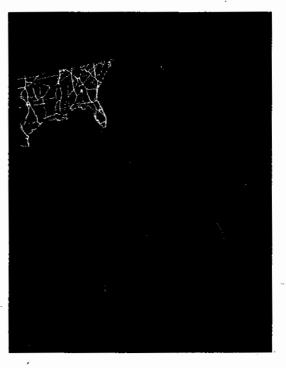
t is not enough just to reduce or eliminate pollution. With a rapidly growing world population, which is projected to double over the next 50 years, finding ways to provide sufficient food in an environmentally sound manner represents a great challenge.

At Monsanto, we believe that developing crop protection chemicals that meet or exceed environmental standards is only part of the answer. We're also looking for brand-new solutions from emerging sciences and technologies, and we are working diligently on commercial applications within the science of biotechnology.

We are sharing the benefits of our agricultural technology with developing nations. For example, we work with African scientists to genetically improve crops such as cassava, the third-largest source of calories in the world.

The potato-like roots of the cassava currently feed 800 million people, mostly in Africa, South America and Asia. However, as pervasive as cassava is, yields are often reduced as much as 80 percent because of its susceptibility to certain viral diseases.

By making these crops naturally resistant to disease, we stand a vety real chance of reducing malnutrition and poverty in many parts of the world.



This satellite tracking system enhances our capability to monitor the exact location of trailer shipments of certain bazardous chemicals, one step in making over-the-road shipping as safe as possible.

And that's just one crop. In the United States, we are working to develop and introduce new technologies to provide the essentials that we'll need in the future. We expect to submit more than a dozen genetically improved crops for regulatory approval before the end of this decade.



SPANNING THE GAP BETWEEN POPULATION GROWTH AND ENVIRONMENTAL CONCERNS

From "pounds per acre" to "ounces per acre" to "natural resistance." That's how Monsanto President and Chief Operating Officer

Earle H. Harbison, Jr., describes the company's multidecade program of advancement in reducing the agricultural products farmers need.

In the fall of 1990, our first crop of insect-resistant cotton was harvested, with excellent results. Commercialization of the insect-resistant gene used in this cotton could eliminate 35 to 40 percent of the 15 million pounds of insecticide needed annually by U.S. cotton farmers.

Also in 1990, Monsanto scientists successfully transferred a similar insect-resistant gene into corn. In this way, Monsanto intends to span the gap between two divergent global issues: the ever-increasing need to feed a growing world population, and the uncompromising demand for a cleaner environment.



GROUNDWATER PROTECTION

IT IS OUR PLEDGE TO ENSURE GROUNDWATER SAFETY.

ur approach starts in the plants, where we engineer new facilities for groundwater safety. Groundwater assessments are conducted routinely for all major plant sites worldwide and other plants with known groundwater concerns. Each of our plants maintains a groundwater protection plan, including inspection, testing and maintenance of facilities to prevent groundwater contamination.

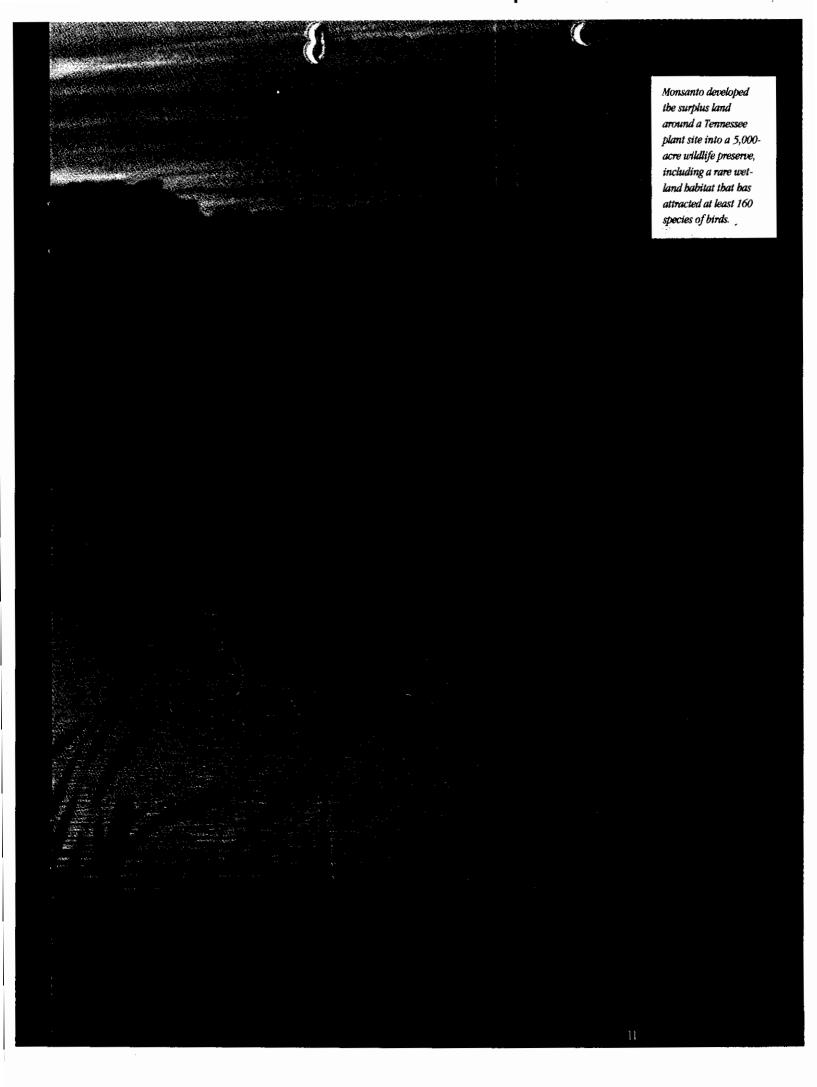
Monsanto's commitment to groundwater protection extends beyond plant boundaries. We recently completed the largest rural well-water survey of its kind ever conducted in the United States. We were looking for traces of commonly used herbicides in drinking water.

The study covered more than 1,400 wells in 26 states. The results: More than 99 percent of the wells show no contamination from Monsanto herbicides.

Demonstrating our commitment to groundwater safety, we offer analytical and financial assistance to correct any rural well in the United States where our herbicides are found in excess of U.S. Environmental Protection Agency (EPA) standards.

Doug Rushing, a field environmental support manager, meets with a customer in rural lowa to discuss Monsanto's rural well assistance program, which provides analytical and financial support for evaluating the quality of well water.







COMMUNITY INVOLVEMENT

IT IS OUR PLEDGE TO KEEP OUR PLANTS OPEN TO OUR COMMUNITIES AND INVOLVE THE COMMUNITY IN PLANT OPERATIONS.

e have always believed that we must earn the right to operate every day in every plant community. However, we now are convinced that the best way to do that is to take the mystery out of what goes on within our plants through open dialogue and trust-building activities.

Our doors are now open. We conduct plant tours, provide detailed information on chemicals we use, and routinely demonstrate our emergency response systems and drills.

Many of our plants have formed commu-

nity advisory panels to involve the community in plant operations. These groups are made up of elected officials, community leaders and area residents who meet regularly with Monsanto representatives. They jointly discuss concerns, progress toward solutions, and questions about the plants' operations. Leveraging Monsanto's expertise, they also

identify opportunities to improve the local

environment.

When the Community Right-to-Know Act required companies to report annual emissions of certain hazardous chemicals to the EPA and state regulatory agencies, we went a step further. We voluntarily began announcing our annual emissions to the public as well. Our 1990 emissions data are summarized in this annual review.

As part of a river watch program near our Indian Orchard plant in Massachusetts, Ed Jamro and other Monsanto employees assist local volunteers in monitoring water quality along a portion of the Chicopee River. The plant is located along this segment of the river.



WORLDWIDE GUIDEUNES PROVIDE COMPREHENSIVE PROGRAMS

Since 1977, six Worldwide Environmental, Safety and Health Guidelines have been in effect for Monsanto plant operations and product safety management. Summarized, they are:

- 1. Reduce pollutants in effluents and emissions.
- 2. Minimize pollutants in waste streams and accidental release of pollutants to the environment, working toward zero releases.
- 3. Assess and audit all plant sites to ensure regulatory compliance and protection of the surrounding environment.
- 4. Provide a healthful and safe environment for employees and neighbors.
- 5. Choose outside suppliers that operate with concern for workers, community and environment.
- 6. Work to ensure that Monsanto products and intermediates pose no unreasonable risk to people or the environment.

These guidelines, which are updated regularly, spell out comprehensive environmental programs at Monsanto plants worldwide. They support the Monsanto Pledge, and they have evolved to include components of Responsible Care, the chemical industry's standard for environmental stewardship.

Preservation of Nature

IT IS OUR PLEDGE TO MANAGE ALL CORPORATE REAL ESTATE, INCLUDING PLANT SITES, TO BENEFIT NATURE.

uring five decades of operations, the 5,000 acres of mining land and ore-washing ponds around our Columbia, Tennessee, phosphorus plant were developed into a productive wildlife habitat, including about 1,000 acres of desirable wetlands.

Monsanto has planted more than 2 million trees at this site since 1985 and set aside some 200 acres as the Monsanto Ponds Wildlife Observation Area. This area attracts bird-watchers, naturalists and school groups, and its ponds are favorite fishing grounds for local anglers.

The wildlife preserve exemplifies Monsanto's commitment to working in harmony with nature and preserving the land for future generations.

We've made concern for nature a serious operating factor at our plants worldwide. At our manufacturing site in Newport, Wales, we are planting an entire British hardwood forest of 40,000 trees and shrubs.

Local students will use the woodlands



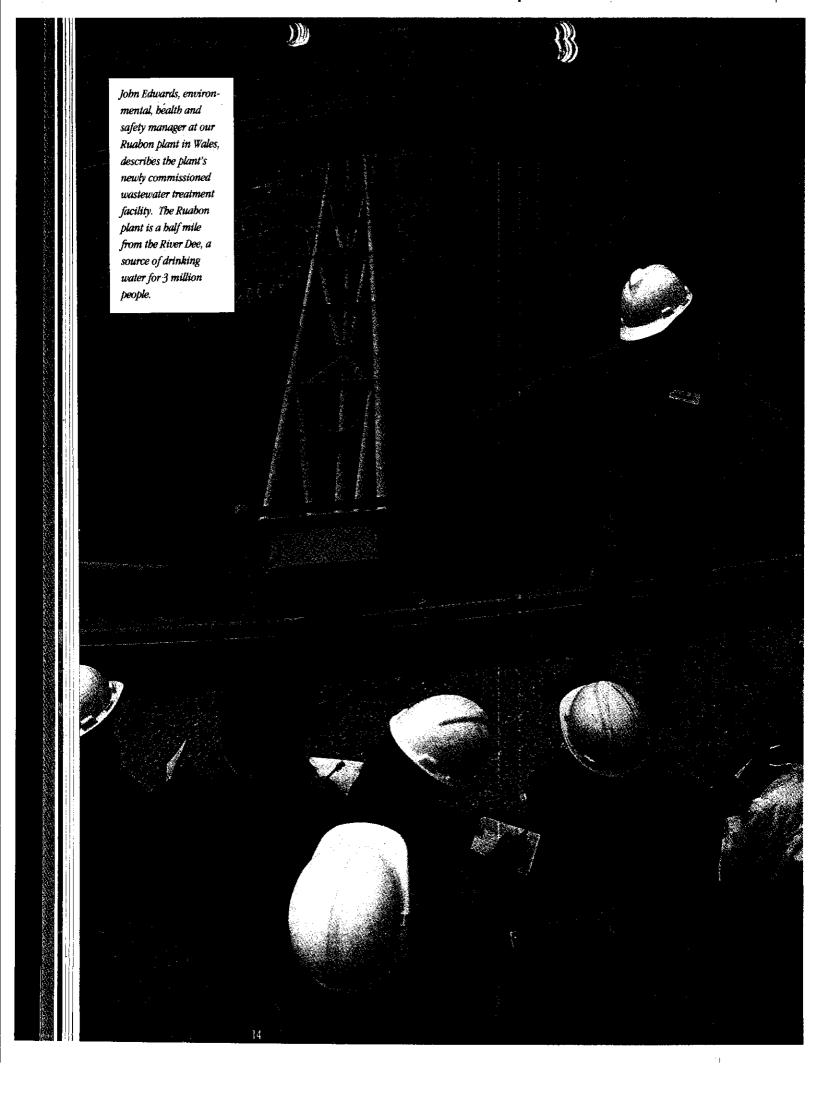
and wetlands to study growth patterns through the years.

Concern for the environment extends to Monsanto's offices as well. At world headquarters, for example, employees voluntarily initiated a recycling effort that handled 3,775 tons of office paper in 1990.

white office paper from Monsanto's world headquarters was recycled in 1990, because this team thought it was the right thing to do.

Almost 3,800 tons of





TECHNOLOGY DEVELOPMENT

IT IS OUR PLEDGE TO SEARCH WORLDWIDE FOR TECHNOLOGY TO REDUCE AND ELIMINATE WASTE FROM OUR OPERATIONS, WITH THE TOP PRIORITY BEING NOT MAKING IT IN THE FIRST PLACE.

n the early years of the Monsanto Pledge, we are making great progress by applying ingenuity and common sense to existing processes. But in the long run, new technologies will be required to reach our goal of zero effect on the environment.

Already, we have developed hundreds of technological improvements ourselves. For example, we have created a new technology that uses sound waves to verify the integrity of the metal tanks used in railcars. We are now sharing this technology with other manufacturers.

Our immobilized bacteria technology, now in test applications, may help us eliminate certain difficult-to-treat waste chemicals in air and water streams. Microbes are being grown specifically to consume particularly troublesome wastes.

In a 1990 test, this technology was used to treat 100 gallons of effluent a day at our W. G. Krummrich plant in Sauget, Illinois. Wastewater was mixed with bacteria grown on beads of inert material. The bacteria demonstrated the ability to remove more than 90 percent of the dissolved byproducts from the water while tolerating high levels of salt in the waste stream.

This treatment technology is attractive because specific organisms can be selected to consume specific types of waste.

We are also testing soil microorganisms at our Indian Orchard plant in Massachusetts. We pump air from a production line through the soil, where bacteria digest the waste.

We recognize, however, that we do not have a monopoly on all the good ideas in the world. In support of our search for technology, Monsanto provides funding to academic institutions, such as the University of Notre Dame, for the development of new process technology.

Our pursuit of useful technologies extends worldwide. From Japan, we have licensed a crystal-lizer process that virtually eliminates emissions to the environment of paradichlorobenzene (PDCB), a chemical used to make moth balls and high-strength plastics. Our engineers identified this technology, and they are using it to help eliminate chemical emissions that previously were released into the air at a rate of a million pounds a year.

WHERE DO YOU FIND THE BEST TROUT ON THE RIVER DEE?

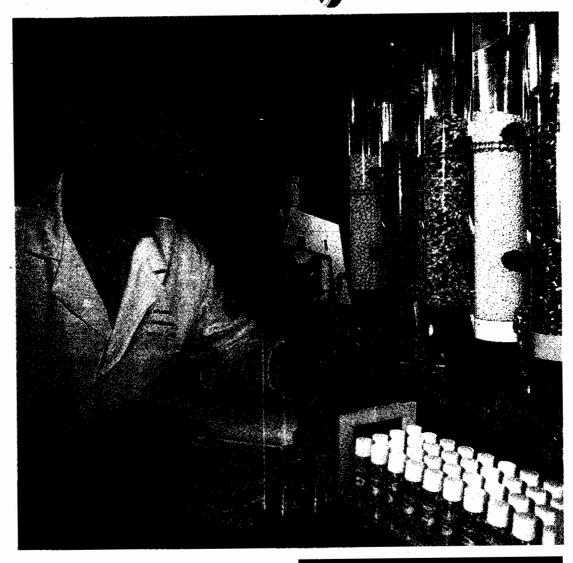
One day, a process operator at our Ruabon plant in the United Kingdom noticed something unusual: fish thriving in the plant's cooling water reservoirs. They had entered the site with the million gallons of water extracted from the River Dee each day.



An idea was born. Why not use the water reservoirs to raise game fish, and then use them to stock the river? Approval was granted; 2,750 trout were purchased; and the nursery began operations, complete with a commercial feeding machine.

Thousands of small trout are now regularly received from the government. Monsanto nurses them for about a year before releasing them into the River Dee, a game fishing river and one of Britain's cleanest stretches of water. In 1990, Monsanto helped sponsor the World Fly Fishing Championships for competitors from 16 countries. The most fish were caught just downstream from our plant.

Special bacteria eat complex industrial waste in a lab trial developed by Monsanto scientists. Here, Michael Heitcamp researches various materials on which the microorganisms are grown.



Monsanto fully supports and participates in the Chemical Manufacturers Association's Responsible Care initiative, an important effort to improve the industry's responsible management of chemicals.

The Monsanto Pledge has provided us with the foundation and direction we need to become part of the solution—not part of the problem in protecting health, safety and the environment

We recognize that the goal of zero effect on the environment and the objective of not making waste in the first place will not be accomplished quickly or simply. But our people have rallied behind

the spirit of the Pledge. Programs are as innovative as they are diverse, and progress is real.

People. Programs. Progress. They are evidence that the Monsanto Pledge made its mark in 1990.

THE MANSANTO PLEDGE

In 1990, Monsanto created a \$100,000 Monsanto Pledge awards program to recognize outstanding environmental achievements by employees. Rather than going to individuals, the financial awards will be contributed to external environmental projects or programs chosen by the award recipients.

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TABLE OF CONTENTS

Data on the following pages are organized into sections representing both mandatory and voluntary reporting programs, as well as resource allocations. The sections are:

SARA TITLE III DATA

Promined by law United States only Potenting of annual releases to air water injection wells and

Required by law. United States only. Reporting of annual releases to air, water, injection wells and land as well as transfers to public sewage treatment or off-site disposal. Based on SARA Title III list of more than 300 chemicals.

Voluntary Monsanto program. Worldwide. A goal for reducing air emissions by 90 percent by the end of 1992. Based on SARA Title III list in United States. Based on the same list as a minimum outside the United States, but including locally designated chemicals where local requirements are more stringent.

Waste Release Reduction Program 2.

Voluntary Monsanto program. Worldwide. A goal for reducing waste releases to air, water,

injection wells and land. Based on Monsanto's own list of high-priority manufacturing waste.

Deals with releases only—does not include transfers to public sewage treatment or disposal systems.

Allocation of these resources since 1987 is detailed following the program sections.

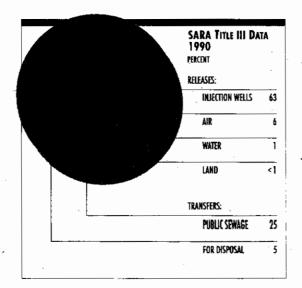
SARA TITLE III DATA

ach year since 1988, Monsanto has reported data as required by Title III of the Superfund Amendments and Reauthorization Act (SARA). The law requires U.S. manufacturing facilities to provide on each July I a report to their states and the EPA. The report must identify specific chemical emissions and releases for the previous year, listing all such releases to air, water or land. Monsanto annually discloses this same information to our plant communities in an effort to maximize accountability.

| SARA TITLE | | DATA SUMMARY(MILLIONS OF POUNDS) |
|------------|--|----------------------------------|
|------------|--|----------------------------------|

| Releases: | 1987 | 1988 | 1989 | 1990 |
|-----------------------------------|-------|-------------------|--------------|-------------------|
| Air | 18.4 | 15.3 | 11.2 | 7.8 |
| Water | 5.0 | 5.5 | 5.1 | 1.7 |
| Injection Wells | 203.0 | 231.3 | 233.3 | 87.0 ¹ |
| Land | 0.4 | 0.4 | 0.3 | 0.1 |
| Total Releases | 226.8 | 252.5 | 249.9 | 96.6 |
| Transfers: | | | | |
| Public Sewage Treatment | 40.4 | 3 5.1 | 37.9 | 34.3 |
| For Disposal | 8.9 | 6.6 | 6.1 ' | 6.7 |
| Toral Transfers | 49.3 | 41.7 | 44.0 | 41.0 |
| Total (adjusted ²) | 276.1 | 294.2 | 293.9 | 137.6 |
| Total (as reported ³) | 342.2 | 30 0.7 | 293.9 | 137.6 |

¹ The EPA no longer requires that ammonium sulfate be reported, only its ammonia content. In 1989, Monsanto reported 202 million pounds of ammonium sulfate released to injection wells, which contained approximately 55 million pounds of ammonia.



In 1990, 63 percent of Monsanto's reported SARA Title III chemicals were released to injection wells. The company is pursuing a program that targets a reduction of more than 70 percent in these chemicals released to injection wells by the end of 1995, using a 1987 base, with their essential elimination by the end of 1999.

Approximately 25 percent of the company's reported SARA Title III chemicals were transferred to public sewage facilities for treatment in 1990. Of this total, 58 percent is composed of two acids that are neutralized under contract with a local public sewage treatment facility before being released to the environment.

² Adjusted to account for chemicals that were added or delisted by the U.S. Environmental Protection Agency and for Monsanto plant locations or businesses that were purchased or sold.

³ As reported to the U.S. Environmental Protection Agency prior to the aforementioned events.

SARA TITLE III CHEMICALS, 1990 (MILLIONS OF POUNDS)

| | | Releases | | | | Transfers | | |
|-----------------------------|------|----------|------------|--------------------|------------------|-----------------|-------|--|
| Chemical: | Air | Water | Land | Injection Wells | Public Sewage | For Disposal | Total | |
| Ammonia | .70 | 1.58 | <.01 | 59.7 | 8.37 | .17 | 70.5 | |
| Hydrochloric Acid | .09 | <.01 | · <u>·</u> | .10 | 15.0 | <.01 | 15.2 | |
| Ammonium Nitrate (solution) | _ | | | 14.0 | | | 14.0 | |
| Formaldehyde | .09 | .04 | <.01 | 3.7 | 1.24 | .04 | 5.1 | |
| Sulfuric Acid | .03 | <.01 | <.01 | | 4.88 | .18 | 5.1 | |
| Methanol | .51 | .01 | · — | .13 | 1.45 | 2.55 | 4.7 | |
| N-Butyl Alcohol | .04 | .01 | _ | 2.4 | .90 | .18 | 3.5 | |
| Acrylonitrile | .81 | <.01 | _ | 1.5 | <.01 | .05 | 2.4 | |
| Phosphoric Acid | .02 | | <.01 | 1.5 | .08 | .12 | 1.7 | |
| Acetonitrile | <.01 | _ | - | 1.4 | _ | _ | 1.4 | |
| Cyclohexane | 1.24 | _ | | .10 | _ | _ | 1.3 | |
| Xylene (mixed isomers) | .86 | .01 | _ | <u> </u> | .27 | .16 | 1.3 | |
| Hydrogen Cyanide | .02 | _ | | .96 | _ | _ | 1.0 | |
| Styrene | .71 | <.01 | _ | _ | <.01 | .27 | 1.0 | |
| Toluene | .40 | .03 | <.01 | _ | <.01 | .41 | 0.9 | |
| Maleic Anhydride | .04 | <.01 | _ | _ | _ | .60 | 0.6 | |
| Phenol | .01 | <.01 | <u> </u> | .37 | .03 | .09 | 0.5 | |
| Benzene | .22 | _ | <.01 | .07 | .15 | .05 | 0.5 | |
| 4-Nitrophenol | <.01 | - | _ | <.01 | .40 | .06 | 0.5 | |
| Butyraldehyde | .10 | <.01 | <.01 | | .35 | <.01 | 0.5 | |
| Other | 1.9 | <.02 | <.01 | 1.1 | 1.1 | 1.8 | 5.9 | |
| Total (96 chemicals) | 7.8 | 1.7 | 0.1 | 87.0 | 34.3 | 6.7 | 137.6 | |

Note: Data for individual chemicals not listed in this table are available from Monsanto's Corporate Communications Department at 800 N. Lindbergh Blvd., St. Louis, Mo., 63167. Data may not add to totals due to independent rounding.

| | SARA TITLE III CHEMICALS, 199 | 0 |
|---|----------------------------------|-----|
| | AMMONIA | 51% |
| | HYDROCHLORIC ACID | 11% |
| - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | AMMONIUM NITRATE | 10% |
| | FORMALDEHYDE | 4% |
| | SULFURIC ACID | 4% |
| | METHANOL | 3% |
| | N-BUTYL ALCOHOL | 3% |
| | ACRYLONITRILE | 2% |
| . | PHOSPHORIC ACID | 1% |
| | ACETONITRILE | 1% |
| | OTHER | 10% |

Ammonia, bydrochloric acid and ammonium nitrate accounted for more than 70 percent of Monsanto's 1990 SARA Title III releases and transfers. Almost 60 percent of the ammonia is associated with ammonium sulfate. Most of the bydrochloric acid is transferred to public sewage treatment for contract neutralization. All of the ammonium nitrate solution, a commonly used fertilizer, is sent to an injection well.

AIR EMISSIONS REDUCTION PROGRAM

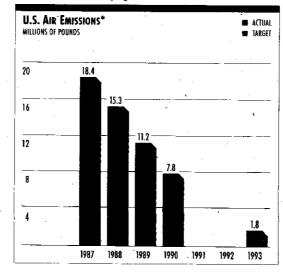
onsanto has voluntarily announced a goal to achieve a 90 percent reduction in air emissions worldwide by the end of 1992, from a 1987 base, with an ultimate goal of zero emissions. This program is based on more than 300 chemicals identified by the U.S. Environmental Protection Agency under Title III of the Superfund Amendments and Reauthorization Act (SARA). Because there is no comparable worldwide list of chemicals, Monsanto uses the SARA Title III list as a base outside the U.S., with locally designated chemicals added to the list in countries where local requirements are more stringent.

AIR EMISSIONS REDUCTION PROGRAM (MILLIONS)

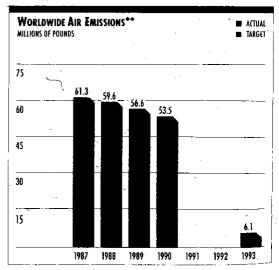
| | 1987 | 1988 | 198 | 9 1990 | 1990 | |
|---|--------|------------|-----------|----------------|------|--|
| United States: | lb. I | g. lb. | kg lb. | kg. lb. kg. | , | |
| SARA Title III | 18.4 | 15.3 | 7.0 11.2 | 5.1 7.8 3.6 | 5 | |
| Percent Reduction from 1987 | | 17% | 399 | % 58% | | |
| Worldwide (including U.S.): | | • | | | | |
| SARA Title III plus Locally Designated Chemicals | 61.3 2 | 7.9 59.6 2 | 27.1 56.6 | 25.7 53.5 24.3 | 3 | |
| Percent Reduction from 1987 | _ | 3% | 89 | 6 13% | | |

Note: Actions are planned at the Newport plant in Wales, which will significantly reduce air emissions of carbon monoxide and butane. These two locally designated chemicals at Newport accounted for more than 60 percent of the total worldwide air emissions under this program in 1990.

Monsanto has reduced its U.S. air emissions by 58 percent since 1987. U.S. emissions in 1990 accounted for 15 percent of the company's world-wide emissions under this program.



Monsanto's air emissions worldwide have been reduced by 13 percent since 1987. SARA Title III chemicals accounted for 30 percent of the total in 1990.



^{*}Based on U.S. EPA SARA Title III chemicals.

^{**}Based on U.S. EPA SARA Title III chemicals at Monsanto facilities worldwide plus chemicals designated locally in plant communities outside the United States,

AIR EMISSIONS, BY LOCATION (MILLIONS)

| Plant Location: | 19 | 87 | 1988 | | 1989 | | 19 | 1990 | |
|---------------------------------|-------|-------|-------|-------|--------|-------|---------------|---------------|--|
| United States | lb. | kg. | lb. | kg. | lb. | kg. | lb. | kg. | |
| Luling (Louisiana) | 6.27 | 2.85 | 4.32 | 1.96 | .80 | .36 | .27 | .12 | |
| Krummrich (Illinois) | 3.81 | 1.73 | 3.36 | 1.53 | 2.92 | 1.33 | 1.34 | .61 | |
| Muscatine (Iowa) | 2.30 | 1.04 | 2.14 | .98 | . 1.99 | .90 | 1.48 | .67 | |
| Pensacola (Florida) | 1.02 | .46 | 1.33 | .61 | 1.41 | .64 | 1 .3 6 | .6 2 | |
| Nitro (West Virginia) | .61 | .28 | .63 | .29 | .70 | .32 | .61 | .28 | |
| Decatur (Alabama) | .58 | .27 | .20 | .09 | .21 | .09 | .19 | .08 | |
| Indian Orchard (Massachusetts). | .55 | .25 | .25 | .11 | .25 | .11 | .24 | .11 | |
| Chocolate Bayou (Texas) | .54 | .25 | .56 | .26 | .64 | .29 | .35 | .16 | |
| Port Plastics (Ohio) | .52 | .24 | .52 | .24 | .50 | .23 | .37 | .17 | |
| Queeny (Missouri) | .50 | .23 | .57 | .26 | .49 | .22 | .44 | .20 | |
| Ex-United States | | | | | | | | | |
| Newport (Wales) | 30.21 | 13.73 | 31.97 | 14.53 | 31.88 | 14.49 | 35.08 | 15.9 5 | |
| Antwerp (Belgium) | 7.94 | 3.61 | 7.75 | 3.61 | 9.00 | 4.09 | 7.47 | 3.40 | |
| Ruabon (Wales) | 2.71 | 1.23 | 1.94 | .88 | 2.03 | .92 | 1.89 | .86 | |
| LaSalle (Canada) | .63 | .29 | .58 | .26 | .46 | .21 | .38 | .17 | |
| All Others | 3.1 | 1.4 | 3.5 | 1.5 | 3.3 | 1.5 | 2.0 | .90 | |
| Total | 61.3 | 27.9 | 59.6 | 27.1 | 56.6 | 25.7 | 53.5 | 24.3 | |

AIR EMISSIONS, BY CHEMICAL (MILLIONS)

| | 19 | 987 ` | 19 | 88 | 19 | 89 | 19 | 90 |
|------------------------------|-------|-------|---------------|------|-------|------|-------|-------|
| Pollutant: | lb. | kg. | lb | kg. | Ib. | kg. | lb. | kg. |
| Carbon Monoxide ² | 17.40 | 7.91 | 18.56 | 8.44 | 19.79 | 9.00 | 22.32 | 10.15 |
| Butane ² | 13.30 | 6.05 | 1 4.08 | 6.40 | 13.12 | 5.96 | 13.05 | 5.93 |
| Ammonia | 6.36 | 2.89 | 4.70 | 2.14 | 1.17 | .53 | .55 | .25 |
| Xylene (mixed isomers) | 3.02 | 1.37 | 2.84 | 1.29 | 3.22 | 1.46 | 3.79 | 1.72 |
| Acrylonitrile | 1.80 | .82 | 1.44 | .65 | 1.85 | .84 | 1.04 | .47 |
| Styrene | 1.63 | .74 | 1.42 | .65 | 1.43 | .65 | 1.20 | .55 |
| Hydrochloric Acid | 1.40 | .64 | 1.06 | .48 | 1.18 | .54 | .37 | .17 |
| Ethyl Alcohol ² | 1.39 | .63 | 1.48 | .67 | 1.48 | .67 | .44 | .20 |
| Methanol | 1.28 | .58 | .93 | .42 | .83 | .38 | .71 | .32 |
| Toluene | 1.09 | .50 | 1.10 | .50 | 1.20 | .55 | 1,11 | .50 |
| Acetone | 1.09 | .50 | 1.01 | .46 | 1.15 | .52 | .93 | .42 |
| Cyclohexane | .87 | .40 | 1.18 | .54 | 1.32 | .60 | 1.24 | .56 |
| 1,4-Dichlorobenzene | .75 | .34 | 1.00 | .45 | .85 | .39 | .02 | .01 |
| Benzene | .72 | .33 | .62 | .28 | .44 | .20 | .34 | .15 |
| Chlorine | .54 | .25 | .56 | .25 | .31 | .14 | .25 | .11 |
| Sulfur Dioxide ² | :52 | .24 | .58 | .26 | .87 | .40 | .92 | .42 |
| Tetrachloroethylene | .52 | .24 | .55 | .25 | .42 | .19 | .38 | .17 |
| Trichloroethylene | .52 | .24 | .30 | .14 | .40 | .18 | .16 | .07 |
| Buryraldehyde | .49 | .22 | .26 | .12 | .26 | .12 | .19 | .09 |
| 1,3-Butadiene | .42 | .19 | .27 | .12 | .24 | .11 | .22 | .10 |
| All Others | 6.2 | 2.8 | 5.7 | 2.6 | 5.1 | 2.3 | 4.3 | 1.9 |
| Total | 61.3 | 27.9 | 59.6 | 27.1 | 56.6 | 25.7 | 53.5 | 24.3 |

Based on U.S. EPA SARA
Title III chemicals at Monsanto
facilities worldwide plus chemicals designated locally in plant
communities outside the
United States.

United States.

Note: Data for individual chemicals not listed in these tables are available from Monsanto's

Corporate Communications

Department at 800 N. Lindbergh

Blvd., St. Louis, Mo., 63167.

Data may not add to totals due to independent rounding.

²Chemicals designated locally in plant communities outside the United States.

V I R O N M E N T A L D A T

Waste Release Reduction Program

onsanto's major operating units have voluntarily adopted individual goals to reduce releases of high-priority manufacturing waste. The company is evaluating a corporate-wide goal to achieve a 70 percent reduction by the end of 1995 in high-priority manufacturing waste. Data presented here represent waste generated by Monsanto Agricultural Company and Monsanto Chemical Company, which produce most of Monsanto's high-priority waste. The data base will continue to evolve. Next year, it will include data from Searle, NutraSweet and Fisher Controls, and it will incorporate the company's initiative to minimize the release of high-priority waste to injection wells.

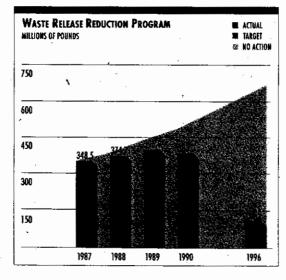
WASTE RELEASE REDUCTION PROGRAM (MILLIONS)

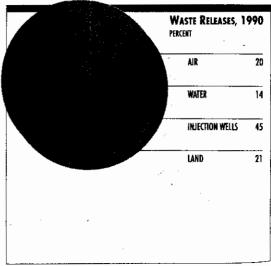
| | . 19 | 87 | . 19 | 88 | 19 | 989 | 19 | 90 |
|-----------------------------|--------------|-------|-------|-------|-------|-------|--------------|-------|
| United States: | lb. | kg. | lb. | kg. | lb. | kg. | lb. | kg. |
| Air | 3 7.7 | 17.1 | 36.9 | 16.8 | 32.8 | 14.9 | 28.4 | 12.9 |
| Water | 27.3 | 12.4 | 26.3 | 12.0 | 27.3 | 12.4 | 32.5 | 14.8 |
| Injection Wells | 121.8 | 55.4 | 146.9 | 66.8 | 165.8 | 75.4 | 173.6 | 78.9 |
| Land | 81.8 | 37.2 | 81.1 | 36.9 | 77.6 | 35.3 | 63.5 | 28.9 |
| Total U.S. Releases | 268.6 | 122.1 | 291.2 | 132.4 | 303.5 | 138.0 | 298.0 | 135.5 |
| Worldwide (including U.S.): | | | | | | | | |
| Air | 82.5 | 37.5 | 83.0 | 37.7 | 81.3 | 37.0 | <i>7</i> 7.0 | 35.0 |
| Water | 44.8 | 20.4 | 44.9 | 20.4 | 49.8 | 22.6 | 52.8 | 24.0 |
| Injection Wells | 121.8 | 55.4 | 146.9 | 66.8 | 165.8 | 75.4 | 173.6 | 78.9 |
| Land | 99.4 | 45.2 | 99.9 | 45.4 | 100.0 | 45.5 | 79.6 | 36.2 |
| Total Worldwide Releases | 348.5 | 158.4 | 374.7 | 170.3 | 396.9 | 180.4 | 383.0 | 174.1 |

Note: The waste release reduction program targets the reduction of organic and toxic inorganic chemical releases (dry weight) to the environment from current manufacturing processes, using 1987 as a base. Data may not add to totals due to independent rounding.

Despite increased manufacturing rates since 1987, Monsanto's waste reduction efforts have reduced by 20 percent the releases that otherwise would have occurred in 1990. These increased manufacturing rates would have resulted in a 40 percent increase in waste releases by 1990.

Approximately 45 percent of Monsanto's bigb-priority waste was sent to injection wells in 1990. The company is pursuing a program that targets a 70 percent reduction in bigh-priority waste released to injection wells by the end of 1995, using a 1987 base.





SELECTED WORLDWIDE ENVIRONMENTAL DATA

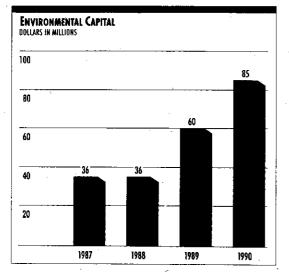
onsanto has committed financial and human resources to improving environmental health and safety performance at our manufacturing sites throughout the world. Capital and expense in 1990 reflected the continuing trend toward increased resources allocated to environmental projects.

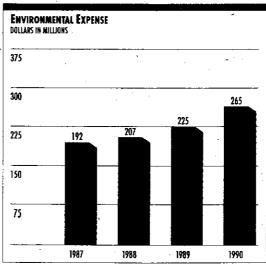
| ENVIRONMENTAL EXPENDITURES (DOLLARS IN MILLIONS) | | | | | | |
|--|------|------|------|------|--|--|
| | 1987 | 1988 | 1989 | 1990 | | |
| Capital | 36 | 36 | 60 | 85 | | |
| Operation and Maintenance Expense | 192 | 207 | 225 | 265 | | |

| Capital | 36 | 36 | 60 | 85 |
|-----------------------------------|------|-----|-----|-----|
| Operation and Maintenance Expense | 192 | 207 | 225 | 265 |
| Remediation | - 18 | 19 | 27 | 27 |

ENVIRONMENTAL, HEALTH AND SAFETY EMPLOYMENT

| | 1987 | 1988 | 1989 | 1990 |
|--------------------------|-------|-------------|-------|-------------|
| Staff | 604 | 676 | 612 | 6 37 |
| Operational | 362 | 337 | 308 | 310 |
| Research and Development | _112 | <u> 163</u> | _223 | 261 |
| Total | 1,078 | 1,176 | 1,143 | 1,208 |





M_. ANAGEM

SENIOR ENVIRONMENTAL MANAGEMENT

RICHARD J. MAHONEY Chairman and Chief Executive Officer, Monsanto Company

EARLE H. HARBISON, JR. President and Chief Operating Officer, Monsanto Company

* NICHOLAS L. REDING Executive Vice President, Environment, Safety, Health and Manufacturing, Monsanto Company

MICHAEL A. PIERLE Vice President, Environment, Safety and Health, Monsanto Company

Environmental Policy Committee

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EARL N. BRASFIELD Vice President, Monsanto Company, and Group Vice President, Monsanto Chemical Company

PHILIP H. BRODSKY Director, Corporate Research and Environmental Technology, Monsanto Company

WILL D. CARPENTER Vice President and General Manager, New Products Division, Monsanto Agricultural Company

GRANT W. DENISON, JR. Vice President, Corporate Planning, Monsanto Company

THOMAS F. EVANS Director, Safety and Environmental Health, Monsanto Company

GARTH F. FORT Director, Environmental Operations, Monsanto Chemical Company

BRENT J. GILHOUSEN Assistant General Counsel – Environmental, Monsanto Company

LEONARD J. GUARRAIA Director, Policy Analysis, Monsanto Company

ROBERT L. HARNESS Vice President, Environmental and Public Affairs, Monsanto Agricultural Company

THOMAS H. LAFFERRE Vice President, Monsanto Company, and Vice President, Operations, Monsanto Chemical Company WILLIAM W. LANDHOLT Group Vice President, Final Control Systems, Fisher Controls International Inc.

JACK MICHELSON Senior Vice President, Technical Operations and Manufacturing, Searle

DANIEL D. MICKELSON Vice President, Manufacturing Operations, Roundup Division, Monsanto Agricultural Company

MICHAEL E. MILLER Corporate Vice President, Administration, Monsanto Company

DONALD J. MINARICH Vice President, Operations and Technology, Carbonated Soft Drink/Tabletop Group, The NutraSweet Company

MICHAEL A. PIERLE Vice President, Environment, Safety and Health, Monsanto Company

NICHOLAS L. REDING Executive Vice President, Environment, Safety, Health and Manufacturing, Monsanto Company

STEPHEN J. ROBINSON Director, Manufacturing, Rubber and Process Chemicals Division, Monsanto Chemical Company

LAWRENCE B. SKATOFF Vice President, Finance, Monsanto Company

COLIN A. WILTSHIRE Director, Environmental and Regulatory Affairs, Monsanto Europe-Africa

GLYNN A. YOUNG Director, Executive Communications, Monsanto Company

Environmental Policy Committee Chairman

LETTER FROM THE PRESIDENT

In 1989, Monsanto Company joined with other major chemical companies to establish the Chemical Manufacturers Association's Responsible Care initiative. Responsible Care is the most ambitious environmental, safety and health commitment ever undertaken by a manufacturing industry in the Linited States. Monsanto extended this commitment worldwide, and it is one of the leading companies encouraging the adoption of this type of initiative throughout the world.

The 10 guiding principles are:

- 1. To recognize and respond to community concerns about chemicals and our operations.
- To develop and produce chemicals that can be manufactured, transported, used and disposed of safely.
- To make health, safety and environmental considerations a priority in our planning for all existing and new products and processes.
- 4. To report promptly to officials, employees, customers and the public information on chemical-related health or environmental hazards and to recommend protective measures.
- 5. To counsel customers on the safe use, transportation and disposal of chemical products.
- 6. To operate our plants and facilities in a manner that protects the environment and the health and safety of our employees and the public.
- To extend knowledge by conducting or supporting research on health, safety and environmental effects of our products, processes and waste materials.
- 8. To work with others to resolve problems created by past handling and disposal of hazardous substances.
- 9. To participate with government and others in creating responsible laws, regulations and standards to safeguard the community, workplace and environment.
- 10. To promote the principles and practices of Responsible Care by sharing experiences and offering assistance to others who produce, handle, use, transport or dispose of chemicals.

We believe that Responsible Care and the Monsanto Pledge are part of one unified fabric. Responsible Care was created for the industry as a whole, and Monsanto fully supports and participates in this important initiative. The Monsanto Pledge guides the employees of our particular company. Furthermore, our Worldwide Environmental Guidelines express definitive requirements embodied in the Pledge and in Responsible Care. As we continue to weave specific Responsible Care elements into our own initiatives, we are confident that Monsanto has the kind of structure we need to ensure the welfare of our workers, our customers, our communities and the environment.

This annual review of our commitments, our accomplishments, our statistical data, and areas in which we need improvement is one way in which we say to the world at large: "We are publicly accountable for our performance."

We intend to deliver on our commitments.

Earle H. Harbison, Jr.

President and Chief Operating Officer

Monsanto Company



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State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 32 E. Hanover St., CN 027, Trenton, N.J. 08625

JACK STANTON DIRECTOR LINO F. PEREIRA
DEPUTY DIRECTOR

0 3 MAR 1983

Monsanto Co. Pennsylvania Avenue Kearny, NJ 07032

RE: Facility Operating Status

Dear Sir:

The Bureau of Hazardous Waste Engineering has reviewed your company's response to the Notice of Violation, Failure to Submit Annual Report. The Bureau finds that the response contains adequate information to determine the operating status of this facility with respect to N.J.A.C. 7:26-l et seq., the New Jersey Hazardous Waste Management Regulations. The Bureau has determined that the company's hazardous waste treatment, storage or disposal facility as delineated in the company's RCRA Part A application and identified by the following EPA ID Number:

EPA ID NO. NJD002444933

has been excluded from regulations under N.J.A.C. 7:26-1.1 et seg. because your facility accumulates hazardous waste on-site for less than 90 days. This exclusion classifies your facility solely as a generator provided the following conditions are complied with:

- 1. All such waste is, within 90 days or less, shipped off-site to an authorized facility or placed in an on-site authorized facility, as defined at N.J.A.C. 7:26-1.4.
- The waste is placed in containers which meet the standards of N.J.A.C. 7:26-7.2 and are managed in accordance with N.J.A.C. 7:26-9.4(d).
- The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container.
- 4. The generator complies with the requirements for owners and operators of N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans and emergency procedures as well as N.J.A.C. 7:26-9.4(g) concerning personnel training.

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9H HWDM5 3/10/153

- 5. For bulk accumulation of dry hazardous waste materials, the waste pile is managed according to the following:
 - (i) The waste pile is no larger than 200 cubic yards; and
 - (ii) The pile shall be placed on an impermeable base that is compatible with the waste; and
 - (iii) Run-on shall be diverted away from the pile; and
 - (iv) Any leachate and run-off from the pile must be collected and managed as a hazardous waste.

This written acknowledgement of the exclusion of the above identified facility from N.J.A.C. 7:26-l et seq. is based expressly on the review of the aforementioned correspondence. This letter makes no claim as to the extent and physical condition of the actual hazardous waste activities occuring at the site mentioned above.

Your company's hazardous waste facility above is no longer included in DEP's list of "existing facilities" (see N.J.A.C. 7:26-1.4 and 12.3) and therefore does not need to conform with the interim operating requirments of N.J.A.C. 7:26-1 et seq. for "existing facilities" which would include the TSD facility annual report. It is the company's responsibility to operate within the conditions listed above. To operate a hazardous waste facility without prior approval from the DEP is a violation of the Solid Waste Management Act N.J.S.A. 13:1E-1 et seq.

As a result of the conclusions previously made, the Notice of Violation entitled "Failure to Submit Annual Report" signed by Mr. David Shotwell is rescinded and need not be complied with.

If you have any questions on this matter, please call my office at (609) 292-9880.

Very truly yours,

Frank Coolick, Chief

Bureau of Hazardous Waste Engineering

FC:jb

cc Dave Shotwell
NJDEP, Division of Waste Management

Tom Taccone USEPA, Region II

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

In The Matter of:

Monsanto Company Pennsylvania Avenue Kearny, New Jersey 07032 NJD002444933

Respondent

Proceeding Under Section 3008 of the Solid Waste Disposal Act as amended

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ANSWER AND REQUEST FOR HEARING

Respondent, Monsanto Company, answers the Complaint of the United States of America as follows:

- 1. Paragraph 1 characterizes the nature and the purpose of the Complainant's action to which no response is required.
- Paragraph 2 constitutes a statement and conclusion of law to which no response is required.
- Paragraph 3 constitutes a statement and conclusion of law to which no response is required. With respect to the factual allegations contained within this paragraph, Respondent is without knowledge or information sufficient to form a belief as to the truth of the allegations contained therein and on that basis they are denied.
- Paragraph 4 constitutes a statement and conclusion of law to which no response is required. With respect to the factual allegations contained within this paragraph, Respondent is without knowledge or information sufficient to form a belief as to the truth of the allegations contained therein and on that basis they are denied.
- Paragraph 5 constitutes a statement and conclusion of law to which no response is required.
- Paragraph 6 constitutes a statement and conclusion of law to which no response is required. With respect to the factual allegations contained within this paragraph, Respondent is without knowledge or information sufficient to form a belief as to the truth of the allegations contained therein and on that basis they are denied.

- 7. Paragraph 7 constitutes a statement and conclusion of law to which no response is required. With respect to the factual allegations contained within this paragraph, Respondent is without knowledge or information sufficient to form a belief as to the truth of the allegations contained therein and on that basis they are denied.
- 8 12. Respondent admits the allegations contained in Paragraphs 8, 9, 10, 11 and 12 of the Complaint.
- 13. Respondent admits that on November 29, 1989, its facility was inspected, but is without knowledge or information sufficient to form a belief as to the truth of the remaining allegations contained in Paragraph 13 and on that basis they are denied.
- 14 17. Paragraphs 14 through 17 constitute statements and conclusions of law to which no response are required. Respondent affirmatively states that the cited regulatory provisions in paragraphs 14, 15, 16 and 17 speak for themselves.
- 18. Respondent admits that it shipped waste to an off-site treatment facility on September 28, 1987, under manifest NJA0326137 and on July 5, 1988, under manifest NJA0414755, but denies the remaining allegations in this paragraph.
- 19. Respondent admits the allegations in paragraph 19 of the Complaint with respect to failure to provide notification to the treatment facility. The allegation that such conduct is a violation of the cited regulation is a statement and conclusion of law to which no response is required.
- 20. Paragraph 20 constitutes a statement and conclusion of law to which no response is required.
- 21 22. Respondent admits the allegations in paragraphs 21 and 22 of the Complaint.
- 23. Paragraph 23 constitutes a statement and conclusion of law to which no response is required.

RESPONSE TO PROPOSED CIVIL PENALTY

The penalties sought in the Complaint are arbitrary and unreasonable. The waste shipped under the manifests referenced in paragraphs 18 and 22 went to Rollins, Bridgeport, New Jersey, a permitted hazardous waste treatment, storage and disposal facility, for the purpose of incineration. The waste material was incinerated, which would have been the treatment method required for F005 by the RCRA Land Disposal Restrictions. There was no economic benefit derived from shipment of the material as D001 as opposed to F005 because the treatment method employed was identical. For the same reason, there was no greater threat to human health or the environment, which would have been posed, if

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the waste was misidentified as the Complaint alleges. Thus, even if the allegations in the Complaint are true and accurate, the proposed penalty is excessive.

REQUEST FOR HEARING

Pursuant to Section 3008(b) of RCRA, Monsanto, Respondent, hereby requests a hearing with respect to the allegations found in and the penalty requested by the Complaint.

Date: 4/19/90

RESPONDENT

Monsanto Company:

Peter C. Wright

Environmental Attorney

800 North Lindbergh Blvd. St. Louis, Missouri 63167 (314) 694-8509

Certificate of Service

I certify that the original and one copy of the foregoing Answer and Request for Hearing was sent by certified mail, return receipt requested, to the Regional Hearing Clerk, 26 Federal Plaza, New York, New York 10278, and that a copy of the same was mailed to Flaire Hope Mills, counsel for Complainant, by first-class mail, postage prepaid on this Alagay of April, 1990.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

In The Matter of:

Monsanto Company Pennsylvania Avenue Kearny, New Jersey 07032

NJD002444933

Respondent.

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Proceeding Under Section 3008 of the Solid Waste Disposal Act as amended

COMPLAINT, COMPLIANCE ORDER AND NOTICE OF OPPORTUNITY FOR HEARING

Docket No. II RCRA-90-0106

COMPLAINT

- This is a civil administrative proceeding instituted pursuant to Section 3008 of the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act ("RCRA") and the Hazardous and Solid Waste Amendments of 1984, ("HSWA"), 42 U.S.C. § 6901 et seq. ("RCRA" or the "Act").
- 2. Section 3006(b) of RCRA, 42 U.S.C. § 6926(b), provides that the Administrator of the United States Environmental Protection Agency ("EPA") may, if certain criteria are met, authorize a state to operate a hazardous waste program in lieu of the federal program.
- The State of New Jersey received final authorization to administer its hazardous waste program on February 21, 1985. Section 3008 of RCRA, 42 U.S.C. § 6928, authorizes EPA to enforce the provisions of the authorized State program, N.J.S.A. 13:1E-1 et. seg. and the regulations promulgated thereunder.
- EPA retains primary responsibility for requirements promulgated pursuant to HSWA, until the State of New Jersey amends its program to incorporate the HSWA requirements and receives authorization to enforce such requirements.
- 5. HSWA amended the Act to include the Land Disposal Restriction Rule ("LDR Rule" or "Land Ban Rule") under Section 3004 of the Act, 42 U.S.C. § 6924.
- The State of New Jersey has not amended its hazardous waste program to incorporate the LDR Rule; therefore, EPA has primary, and at the present time, sole implementation authority for the LDR Rule.

- 7. Complainant in this proceeding, Conrad Simon, Director of the Air & Waste Management Division of the U.S. Environmental Protection Agency, Region II, has been duly delegated the authority to institute this action.
- 8. Respondent owns and/or operates a "facility," as defined in 40 C.F.R. § 260.10 and N.J.A.C. 7:26:-1.4, which is located at Pennsylvania Avenue, Kearny, New Jersey 07032.
- 9. Respondent is a "person," as that term is defined in Section 1004(15) of RCRA, 42 U.S.C. § 6903(15), in 40 C.F.R. § 260.10 and in N.J.A.C. 7:26-1.4.
- 10. On August 18, 1980, Respondent informed EPA that it conducts activities at its facility involving "hazardous waste" as that term is defined in Section 1004(5) of RCRA, 42 U.S.C. § 6903(5) and in 40 C.F.R. § 260.10 and N.J.A.C. 7:26-1.4
- 11. By application dated November 19, 1980, Respondent requested a permit for its facility to conduct the hazardous waste activities described in its application.
- 12. Respondent is a "generator" of hazardous wastes, as that term is defined in 40 C.F.R. § 260.10 and N.J.A.C. 7:26-1.4.
- 13. Pursuant to Section 3007 of the Act, 42 U.S.C. § 6927, on or about November 29, 1989, duly-designated representatives of EPA conducted an inspection of the facility to determine compliance with specific state and federal regulations for the management of hazardous waste.
- 14. 40 C.F.R. Part 262 sets forth federal standards for generators of hazardous waste. N.J.A.C. 7:26-7.4 establishes New Jersey requirements for generators of hazardous waste.
- 15. 40 C.F.R. Part 268 sets forth the Land Disposal Restrictions promulgated pursuant to HSWA.
- 16. 40 C.F.R. § 268.7(a) requires a generator to test its waste or an extract developed using the test method described in Appendix I of 40 C.F.R. Part 268, or to use knowledge of the waste, to determine if the waste is restricted from land disposal under 40 C.F.R. Part 268.
- 17. In accordance with 40 C.F.R. § 268.7(a)(1) if a generator determines it is managing a restricted waste which can not be land disposed without further treatment, the generator is required to notify an offsite treatment facility in writing of the

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appropriate treatment standards set forth in Subpart D of 40 C.F.R. Part 268. The notification must include the following information:

(i) EPA Hazardous Waste Number;

- (ii) corresponding treatment standards and all applicable prohibitions set forth in 40 C.F.R. § 268.32 or § 3004(d) of the Act, 42 U.S.C. § 6924(d);
- (iii) the manifest number associated with the shipment of the waste; and
 - (iv) waste analysis data, where available.
- 18. At or about the time of the above referenced inspection, the duly-designated representatives determined that Respondent had shipped restricted waste to an off-site treatment facility on September 28, 1987 under manifest NJA0326137 and on July 5, 1988 under manifest NJA0414755 without the notification required by 40 C.F.R. § 268.7(a)(1).
- 19. Respondent's failures to notify the off-site treatment facility in writing of the appropriate treatment standards constitute a violation of 40 C.F.R. § 268.7(a)(1).
- 20. N.J.A.C. 7:26-7.4(a)(4)(vii) requires the generator to prepare a manifest which contains an accurate classification by hazardous waste number of the hazardous waste shipped with the manifest.
- 21. On manifests NJA0326137 and NJA0414755, Respondent had failed to accurately classify by hazardous waste number the hazardous waste being shipped with the manifests.
- 22. Specifically, "F005" waste solvent was improperly classified as "D001" on hazardous waste manifests NJA0326137 and NJA0414755.
- 23. Respondent's failures to properly classify hazardous wastes on its hazardous waste manifests, as specified in paragraphs 21 and 22 above, constitute a violation of N.J.A.C. 7.26-7.4(a)(4)(vii).

PROPOSED CIVIL PENALTY

In view of the violations referenced above, and pursuant to the authority of Section 3008 of RCRA, Complainant herewith proposes the assessment of a civil penalty in the amount of nine thousand - four hundred and ninety-nine dollars (\$9,499) against MONSANTO COMPANY as follows:

Total \$9,499

COMPLIANCE ORDER

Based upon the foregoing, and pursuant to the authority of Section 3008 of RCRA, Complainant herewith issues the following Compliance Order against Respondent herein:

- 1. Respondent shall, upon the effective date of this Compliance Order, comply with 40 C.F.R. Part 268, when Respondent generates and ships restricted waste, as identified in 40 C.F.R. Part 268, to off-site treatment facilities. Specifically, pursuant to 40 C.F.R. § 268.7(a)(1), Respondent shall include notifications to treatment facilities which include the following information:
 - (i) EPA Hazardous Waste Number(s);
 - (ii) The corresponding treatment standards and all applicable prohibitions set forth in 40 C.F.R. § 268.32 or Section 3004(d) of the Act, 42 U.S.C. § 6924(d);
 - (iii) The manifest number associated with the shipment of the waste; and
 - (iv) Waste analysis data, where available.
- 2. Respondent shall, upon the effective date of this Compliance Order, comply with N.J.A.C. 7:26-7.4(a)(4)(vii) and correctly identify hazardous waste on its hazardous waste manifests.

NOTICE OF LIABILITY FOR ADDITIONAL CIVIL PENALTIES

Pursuant to the terms of Section 3008(c) of RCRA, a violator failing to take corrective action within the time specified in a Compliance Order is liable for a civil penalty of up to \$25,000 for each day of continued noncompliance. Such continued noncompliance may also result in suspension or revocation of any permits issued to the violator whether issued by the Administrator or the State.

NOTICE OF OPPORTUNITY TO REQUEST A HEARING

As provided in Section 3008(b) of RCRA, and in accordance with EPA's Consolidated Rules of Practices Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 C.F.R. Part 22 45 Fed. Reg. 24,360 (April 9, 1980) (a copy of which accompanies this Complaint, Compliance Order, Notice of Opportunity for Hearing), you have the right to request a Hearing to contest any material fact set out in the Complaint, or to contest the appropriateness of the proposed penalty, or the terms of the Compliance Order. (Consistent with the provisions of Section 3008(b) of RCRA, should you request such a public Hearing, notice of the Hearing will be provided and the Hearing will be open to the general public. However, in the absence of such a specific request, public notice of a scheduled Hearing will not be published.)

To avoid being found in default and having the proposed civil penalty assessed and the Compliance Order confirmed without further proceedings, you must file a written Answer to the Complaint, which may include a request for a Hearing. Your Answer, if any, must be addressed to the U.S. Environmental Protection Agency, Regional Hearing Clerk, 26 Federal Plaza, New York, New York 10278, and must be filed within thirty (30) days of your receipt of this Complaint, Compliance Order, and Notice of Opportunity for Hearing.

Your Answer must clearly and directly admit, deny, or explain each of the factual allegations contained in the Complaint, and should contain (1) a clear statement of the facts which constitute the grounds of your defense, and (2) a concise statement of the contentions which you intend to place in issue at the Hearing.

The denial of any material fact, or the raising of any affirmative defense, will be construed as a request for a Hearing. Failure to deny any of the factual allegations in the Complaint will be deemed to constitute an admission of the undenied allegations. Your failure to file a written Answer within thirty (30) days of receipt of this instrument will be deemed to represent your admission of all facts alleged in the Complaint, and a waiver of your right to a formal Hearing to contest any of the facts alleged by the Complainant. Your default may result in the final issuance of the Compliance Order, and assessment of the proposed civil penalty, without further proceedings.

INFORMAL SETTLEMENT CONFERENCE

Whether or not you request a Hearing, the EPA encourages settlement of this proceeding consistent with the provisions of

RCRA. At an informal conference with a representative of the Complainant you may comment on the charges and provide whatever additional information you feel is relevant to the disposition of this matter, including any actions you have taken to correct the violation, and any other special circumstances you care to raise. The Complainant has the authority to modify the amount of the proposed penalty, where appropriate, to reflect any settlement agreement reached with you in such a conference, or to recommend that any or all of the charges be dismissed, if the circumstances so warrant. Your request for any informal conference and other questions that you may have regarding this Complaint, Compliance Order, and Notice of Opportunity for Hearing should be directed to Flaire Hope Mills, Assistant Regional Counsel, Air, Waste & Toxic Substances Branch, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York 10278, telephone (212) 264-3350.

Please note that a request for an informal settlement conference does not extend the thirty (30) day period during which a written Answer and Request for a Hearing must be submitted. The informal conference procedure may be pursued as an alternative to, or simultaneously with, the adjudicatory Hearing procedure. However, no penalty reduction will be made simply because such a conference is held.

Any settlement which may be reached as a result of such conference will be embodied in a written Consent Agreement and Consent Order to be issued by the Regional Administrator. Your signing of such Consent Agreement would constitute a waiver of your right to request a Hearing on any matter stipulated to therein.

Signing of such a Consent Agreement in this matter shall constitute a waiver of the right to request and to obtain a formal Hearing on any matter stipulated to therein. Entering into a settlement through signing of such Consent Agreement and continued compliance with the terms and conditions set forth in both the Consent Agreement and Compliance Order will terminate this administrative litigation and the civil proceedings arising out of the allegations made in the Complaint. Entering into a settlement and your continuing compliance with the conditions set forth in the Compliance Order do not extinguish, satisfy or otherwise affect obligation and responsibility to comply with all other applicable regulations and requirements set forth in, and/or promulgated pursuant to, RCRA, and to maintain such compliance.

RESOLUTION OF THIS PROCEEDING WITHOUT HEARING OR CONFERENCE

Instead of filing an Answer requesting a Hearing or requesting an informal settlement conference, you may choose to comply with the terms of the Compliance Order, and to pay the

proposed penalty. In that case, payment should be made by sending a check in the amount of the penalty specified in the "Proposed Civil Penalty" section of this instrument to the Regional Hearing Clerk, EPA - Region II, P.O. Box 360188M, Pittsburgh, PA 15251. A copy of the check should also be sent to Flaire Hope Mills, at the address referenced above. Your check must be made payable to the Treasurer of the United States.

DATED: March 17 ,190 New York, New York

COMPLAINANT:

CONRAD SIMON

Director

Air and Waste Management Division Environmental Protection Agency Region II

TO: Mr. Richard J. Mahoney
Chairman & CEO
Monsanto Company
800 N.Lindbergh Boulevard
St. Louis, Missouri 63166

Mr. Ronald Panasiewicz Plant Manager MONSANTO COMPANY Pennsylvania Avenue Kearny, New Jersey 07032

cc: Wayne Howitz
Assistant Director
Hazardous Waste Enforcement
New Jersey Department of
Environmental Protection
401 East State Street
Trenton, New Jersey 08625

Nancy B. Stiles
Office of Regulatory Services
New Jersey Department of
Environmental Protection
401 East State Street
Trenton, New Jersey 08625

bcc: Joel Golumbek, 2AWM-HWC Flaire Hope Mills, 2ORC-AWTS Bob Small, RATTS Coordinator Karen Maples, 2RHC-PAB Jim Sullivan, 2AWM-HWC

Certificate of Service

This is to certify that on the day of MARCA 1990, I served a true and correct copy of the foregoing Complaint and a copy of the Consolidated Rules of Practice by certified mail to Mr. Richard J. Mahoney, Chairman & CEO, MONSANTO COMPANY, St. Louis, Missouri 63166. I hand carried the original and a copy of the foregoing Complaint to the Regional Hearing Clerk.

Jussie Freeman

ATTACHMENT I REASONING BEHIND PROPOSED PENALTY

Pursuant to 40 C.F.R. § 22.14(a)(4) and (5), EPA is providing you this statement explaining the reasoning behind the proposed penalty assessed for each violation cited in this Complaint. Attached to this Complaint you will find the EPA Penalty Computation Worksheet ("Worksheet") for each violation for which you have been assessed a proposed penalty. (Attachments III and IV)

RCRA Section 3008(a)(3) states that the seriousness of the violation must be taken into account in assessing penalties. The seriousness of a violation is based on the potential for harm and extent of the deviation from a statutory or regulatory requirement, which provide the basis for determining the gravity based penalty.

- 1) For the violation of 40 C.F.R. § 268.7(a)(1):
- o The "Potential for Harm" present in this violation was determined to be minor because while the violation has an adverse effect on the statutory and regulatory purposes and procedures for implementing the LDR program, the circumstances surrounding this particular instance of violation created a situation in which the violation posed a relatively low likelihood of a release of hazardous waste or hazardous waste constituents.
- o The "Extent of Deviation" present in the violation was determined to be major, because the Respondent deviated from the regulation to such an extent that there was substantial noncompliance.
- The high point of the "Matrix Cell Range" was chosen because the the restricted hazardous waste was sent to a facility to be treated via the thermal destruction of hazardous constitutents. In instances where such waste is sent to be recycled the Agency normally assesses the mid-point of this cell as the proposed penalty for this violation.
- o The "Total Penalty Amount" of \$2,999 was determined to be appropriate for Respondent's violation of 40 C.F.R. § 268.7(a)(1).
- 2) For the violation of N.J.A.C. 7:26-7.4(a)(4)(vii):
- o The "Potential for Harm" present in this violation was determined to be moderate because not correctly classifying hazardous waste may have a significant effect on the statutory and regulatory purposes or procedures for implementing the RCRA program. The manifest system is designed to track hazardous waste from the point of

generation until its final disposition (cradle to grave) so as to insure the proper disposal of these wastes. Hence, since the hazardous waste codes were incorrect, the statutory purpose of tracking waste was thwarted and the possibility of mishandling the waste was increased.

- The "Extent of Deviation" present in the violation was determined to be moderate because while some of the requirements of this particular regulation are implemented as intended, correct classification of a hazardous waste is considered to be an essential item and therefore failure to correctly classify is considered to be a significant deviation from the requirements.
- The mid point of the "Matrix Cell Range" was chosen because while there was significant deviation from the requirements of the regulation, because a constituent breakdown was given on the manifest, there was a possibility that the error would be corrected.
- o The "Total Penalty Amount" of \$6,500 was determined to be appropriate for Respondent's violation of N.J.A.C. 7:26-7.4(a)(4)(vii).

ATTACHMENT II

MATRIX

EXTENT OF DEVIATION FROM REQUIREMENT

| | | MAJOR | MODERATE | MINOR |
|-----------------------|----------|--------------------------|--------------------------|--------------------------|
| P O T E N | MAJOR | \$25,000 to 20,000 | \$19,999 to 15,000 | \$14,999 to 11,000 |
| I A L F O | MODERATE | \$10,999 to 8,000 | \$7,999 to 5,000 | \$4,999 to 3,000 |
| R H A R M | MINOR | \$2,999 to 1,500 | \$1,499 to 500 | \$499 to 100 |

| 6. Adjusted Per day Penalty (Line 4, Part I + Lines 1-4, Part II): | \$2,999 |
|--|---------|
| 7. Number of Days of Violation: | N/A |
| 8. Multi Day Penalty (Number of days x Line 6, Part II): | N/A |
| 9. Economic Benefit of Noncompliance: | N/A |
| Justification: | |
| 10. Total (Line 8 + 9, Part II): | \$2,999 |
| 11. Ability to Pay Adjustment: | |
| Justification for Adjustment: | N/A |
| <pre>12. Total Penalty Amount (must not exceed \$25,000 per day of violation):</pre> | \$2,999 |
| | |

ATTACHMENT III

| Compa | any Name: MONSANTO COMPANY | | · | | | | | |
|-------|---|--|-------------------------|--|--|--|--|--|
| Regu. | Regulation Violated 40 C.F.R § 268.7(a)(1) | | | | | | | |
| | Assessments for each violation should be determined on separate work-sheets and totalled. | | | | | | | |
| | (If more space is needed | d, attach separa | te sheet). | | | | | |
| | Part I - Seriousness of Violation Penalty | | | | | | | |
| 1. | Potential for Harm: | | MINOR | | | | | |
| 2. | Extent of Deviation: | | MAJOR | | | | | |
| 3. | Matrix Cell Range: | | \$2,999 - 1,500 | | | | | |
| | Penalty Amount Chos | sen: | \$2,999 | | | | | |
| | Justification for P Amount Chosen: | High-point of range (see Attachment I) | | | | | | |
| 4. | Per Day Assessment: | | \$2,999 | | | | | |
| | Part II - Pe | nalty Adjustmen | <u>ts</u> | | | | | |
| | Pe | rcentage Change | * Dollar Amount | | | | | |
| 1. | Good faith efforts to comply/lack of good faith: | RESERVED | N/A | | | | | |
| 2. | Degree of willfulness and/or negligence: | RESERVED | N/A | | | | | |
| 3. | History of noncompli- ance | RESERVED | N/A | | | | | |
| 4. | Other unique factors: | RESERVED | N/A | | | | | |
| 5. | Justification for Adjustments: | | | | | | | |
| * P | ercentage adjustments are a n line 4, Part I. | pplied to the do | ollar amount calculated | | | | | |

| 6. Adjusted Per day Penalty (Line 4, Part I + Lines 1-4 Part II): | \$6,500 |
|---|---------|
| 7. Number of Days of Violation: | N/A |
| 8. Multi Day Penalty (Number of days X Line 6, Part II): | N/A |
| 9. Economic Benefit of Noncompliance: | N/A |
| 10. Total (Line 8 + 9, Part II): | \$6,500 |
| ll. Ability to Pay Adjustment: | |
| Justification for Adjustment: | N/A |
| 12. Total Penalty Amount (must not exceed \$25,000 per day of violation): | \$6,500 |

ATTACHMENT IV

| Company Name: MONSANTO COMPANY | | | | | | |
|--------------------------------|---|----------------------------|---------------------------------------|--|--|--|
| Regula | ation Violated N.J.A.C. | . 7:26-7.4(a)(4)(vii) | | | | |
| | Assessments for each violation should be determined on separate work- sheets and totalled. | | | | | |
| | (If more space is neede | ed, attach separate sheet) | | | | |
| | Part I - Seriousnes | ss of Violation Penalty | · | | | |
| 1. | Potential for Harm: | | Moderate | | | |
| 2. | Extent of Deviation: | | Moderate | | | |
| 3. | Matrix Cell Range: | | \$7,999 to 5,000 | | | |
| | Penalty Amount | Chosen: | \$6,500 | | | |
| | Justification f Amount Chosen: | or Penalty | Mid-point of range (see Attachment I) | | | |
| 4. | Per Day Assessment: | | \$6,500 | | | |
| | Part II - Penal | ty Adjustments | | | | |
| | <u> P</u> | Percentage Change* | Dollar Amount | | | |
| 1. | Good faith efforts to comply/lack of good faith: | RESERVED | N/A | | | |
| 2. | Degree of willfulness and/or negligence: | RESERVED | N/A | | | |
| 3. | History of noncompli- ance | RESERVED | N/A | | | |
| 4. | Other unique factors: | RESERVED | N/A | | | |
| 5. | Justification for Adjustments: | | | | | |
| * P | ercentage adjustments am n line 4, Part I. | re applied to the dollar a | amount calculated | | | |

Berry William

AUG 0.9 1990

CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Peter C. Wright Environmental Attorney Monsanto Company 800 North Lindbergh Blvd. St. Louis, Missouri 63167

Monsanto Company

Docket No. II RCRA-90-0106

Dear Mr. Wright:

Enclosed is a copy of the Consent Agreement and Consent Order in the above-referenced proceeding, signed by the Regional Administrator for Region II of the United States Environmental Protection Agency.

Please note that payment is due within thirty (30) days of the date on which the Regional Administrator signed the enclosed Consent Agreement and Consent Order. Please arrange for payment of this penalty according to the instructions given in the Consent Agreement.

Sincerely yours,

Flaire Hope Mills Assistant Regional Counsel Waste and Toxic Substances Section Air, Waste and Toxic Substances Branch Office of Regional Counsel

Nancy B. Stiles, NJDEP

bcc: Bob Small, (WH-527)

Laura Livingston, (20PM-PA) Ronald Gherardi, (20PM-FIN)

Karen Maples, (RHC) George Meyer, (2AWM-HWC)

Kim Helper, (20EP)

Jim Sullivan, (2AWM-HWC) J.F. Greene, (ALJ)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

----x

Respondent. :

In The Matter of:

CONSENT AGREEMENT
AND
CONSENT ORDER

Monsanto Company Pennsylvania Avenue Kearny, New Jersey 07032 NJD002444933

:

Proceeding Under Section 3008 of the Solid Waste Disposal Act as amended

: Docket No. II RCRA-90-0106

CONSENT AGREEMENT

1. The United States Environmental Protection Agency ("EPA"), as Complainant, and Monsanto Company ("Monsanto"), having signed this Consent Agreement and having consented to its filing and the entry of the Consent Order attached, have agreed to comply with the terms in this Consent Agreement and Consent Order ("CA/CO").

I. Preliminary Statement

- 2. A civil administrative proceeding was instituted pursuant to Section 3008 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976 ("RCRA") and the Hazardous and Solid Waste Amendments of 1984, ("HSWA"), 42 U.S.C. § 6901 et seq. ("RCRA" or the "Act").
- 3. The Complainant, Conrad Simon, Director of the Air and Waste Management Division of EPA, Region II, being duly delegated the authority to institute the action, issued a Complaint,

Compliance Order and Notice of Opportunity for Hearing ("Complaint") to Monsanto, on March 19, 1990.

II. Findings of Fact

- 4. Respondent owns a "facility," as defined in 40 C.F.R. § 260.10 and N.J.A.C. 7:26:-1.4, which is located at Pennsylvania Avenue, Kearny, New Jersey 07032.
- 5. Respondent operates the facility referenced above in paragraph 4.
 - 6. Pursuant to Section 3007 of the RCRA, 42 U.S.C. § 6927, at or about November 29, 1989, duly-designated representatives of the NJDEP conducted an inspection of Respondent's facility.
 - 7. The inspection, referenced above in paragraph 6, was conducted pursuant to and for the purposes of determining compliance with specific State and Federal regulations which govern the management of hazardous waste.
 - 8. At or about the time of the inspection, referenced above in paragraph 6, the duly-designated representatives determined, based on the inspection and information provided pursuant to the inspection, that Respondent had failed to test its waste or extract in accordance with 40 C.F.R. § 268.7(a) to determine if the waste is restricted from land disposal under 40 C.F.R. Part 268.
 - 9. At or about the time of the inspection, referenced above in paragraph 6, the duly-designated representatives determined, based on the inspection, that Respondent had shipped restricted

waste to an off-site treatment facility on September 28, 1987 under manifest NJA0326137 and on July 5, 1988 under manifest NJA0414755 without the notification required by 40 C.F.R. § 268.7(a)(1).

- 10. At or about the time of the inspection, referenced above in paragraph 6, the duly-designated representatives determined, that on manifests NJA0326137 and NJA0414755, Respondent classified "F005" solvent as "D001".
- 11. During the informal settlement conference, Respondent explained that it included a chemical constituent breakdown on manifests NJA0326137 and NJA0414755 for the purposes of ensuring proper disposal of the waste solvent in accordance with the disposal requirements of HSWA and RCRA, notwithstanding the classification of the waste solvent.

III. Conclusions of Law

- 12. Respondent is a "person," as that term is defined in Section 1004(15) of RCRA, 42 U.S.C. § 6903(15), in 40 C.F.R. § 260.10 and in N.J.A.C. 7:26-1.4.
- 13. 40 C.F.R. Part 268 sets forth the Land Disposal Restrictions promulgated pursuant to HSWA.
- 14. 40 C.F.R. § 268.7(a) requires a generator to test its waste or an extract developed using the test method described in Appendix I of 40 C.F.R. Part 268, or to use knowledge of the waste, to determine if the waste is restricted from land disposal under 40 C.F.R. Part 268.

- 15. Respondent's failure to test the waste or extract, as specified above in paragraph 8 of the Findings of Fact, constitutes a violation of 40 C.F.R. § 268.7(a).
- 16. 40 C.F.R. § 268.7(a)(1) requires a generator who determines it is managing a restricted waste, which can not be land disposed without further treatment, to notify an off-site treatment facility in writing of the appropriate treatment standards set forth in Subpart D of 40 C.F.R. Part 268. The notification must include the following information:
 - (i) EPA Hazardous Waste Number;
 - (ii) corresponding treatment standards and all applicable
 prohibitions set forth in 40 C.F.R. § 268.32 or
 § 3004(d) of the Act, 42 U.S.C. § 6924(d);
 - (iii) the manifest number associated with the shipment of the waste; and
 - (iv) waste analysis data, where available.
- 17. Respondent's shipment of restricted waste under manifest NJA0326137 and manifest NJA0414755 to an off-site treatment facility without the requisite notification, as specified above in paragraph 9, constitutes a violation of 40 C.F.R. § 268.7(a)(1).
- 18. N.J.A.C. 7:26-7.4(a)(4)(vii) requires the generator to prepare a manifest which contains an accurate classification by hazardous waste number of the type of hazardous waste shipped with the manifest.

19. Respondent's erroneous labeling of "F005" waste solvent as "D001" on manifests NJA0326137 and NJA0414755, as specified above in paragraph 10, constitutes a violation of N.J.A.C. 7.26-7.4(a)(4)(vii).

IV. Terms of Agreement

- 20. Based upon the foregoing, and pursuant to Section 22.18 of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 C.F.R. § 22.18, it is hereby agreed as follows:
- 21. Respondent shall, upon the effective date of this Compliance Order, comply with 40 C.F.R. Part 268 when Respondent generates and ships restricted waste, as identified in 40 C.F.R. Part 268, to off-site treatment facilities which include the following information:
 - (i) EPA Hazardous Waste Number;
 - (ii) corresponding treatment standards and all applicable
 prohibitions set forth in 40 C.F.R. § 268.32 or
 § 3004(d) of the Act, 42 U.S.C. § 6924(d);
 - (iii) the manifest number associated with the shipment of the waste; and
 - (iv) waste analysis data, where available.
- 22. Respondent shall, upon the effective date of this Compliance Order, comply with N.J.A.C. 7:26-7.4(a)(4)(vii) and

correctly identify hazardous waste on its hazardous waste manifests.

- 23. Complainant and Respondent have agreed to a settlement of this matter without adjudication of fact or law.
- 24. Solely for the purposes of this proceeding, Respondent admits the jurisdictional allegations of the Complaint filed herein.
- 25. Respondent neither admits nor denies specific factual allegations contained in the Complaint.
- 26. Respondent agrees to pay, by cashier's or certified check, a total civil penalty of seven thousand and six hundred dollars, (\$7,600) payable to the Treasurer, United States of America, and agrees to send payment to the EPA Region II Regional Hearing Clerk, P.O. Box 360188M, Pittsburgh, Pennsylvania 15251. The payment shall be identified as In the Matter of MONSANTO COMPANY, Docket No. II RCRA-90-0106. Payment is due within thirty (30) days after the Regional Administrator signs the Consent Order accompanying this Consent Agreement. A copy of this check should also be sent to the Office of Regional Counsel, Air, Waste and Toxic Substances Branch.
- a. Failure to pay the penalty in full according to the above provisions will result in referral of this matter to the United States Attorney for collection.
- b. Furthermore, if payment is not received on or before the due date, interest will be assessed at the annual rate established by the Secretary of the Treasury pursuant to

31 U.S.C. § 3717, on the overdue amount from the due date of this through the date of payment. In addition, a late payment handling charge of \$15.00 per month will be assessed if payment is not received by the due date. A 6% per annum penalty also will be applied on any principal amount not paid within ninety (90) days of the due date.

- 27. This Consent Agreement and Consent Order is being entered into by the parties in full settlement of all civil liabilities which might have attached as result of the allegations in the Complaint.
- 28. Respondent explicitly waives the right to request a hearing on any issue of fact or law in this matter.
- 29. Respondent has read the foregoing and believes it to be reasonable, and consents to its issuance and terms.
- 30. Having fully reviewed the foregoing paragraphs, EPA and Monsanto do hereby consent to the provisions of this Consent Agreement and to its issuance as a Consent Order.
- 31. Each undersigned signatory to this Consent Agreement certifies that he or she is fully authorized to enter into the terms of this Consent Agreement.

| RES | DO | MD | EMT | ٠. |
|-----|----|----|------|----|
| KES | PU | Nυ | LN 1 | |

AWBY: Ronald P. Paron is

NAME: Ronald P. Panasiewicz

Plant Manager
MONSANTO COMPANY
TITLE: Kearny, New Jersey

DATE: August 1, 1990

COMPLAINANT:

BY:

CONRAD SIMON

Director Air and Waste Management Division U.S. Environmental Protection Agency - Region II

DATE:

CONSENT ORDER

The Regional Administrative of EPA, Region II, concurs in the foregoing Consent Agreement. The Consent Agreement entered into by the parties is hereby approved and issued, as an Order, effective immediately.

BY:

Regional Administrator
U.S. Environmental Protection
Agency - Region II
26 Federal Plaza
New York, New York 10278

DATE:

*KEARNY, NJ

FAX TRANSMITTAL

| PAGE. 1 OF 9 DATE: 12/19/90 |
|---|
| TO: JIM SULLIVAN |
| EPA, NEW YORK |
| FAX NUMBER: |
| 1-212- 264 - 7613 (Mon-Net) |
| PHONE NUMBER: |
| or () (Mon-Net) |
| RECIPIENT TO ACKNOWLEDGE RECEIPT? |
| YES (RECIPIENT - PHONE SENDER UPON RECEIPT) |
| NO NO |

| FROM: | C-BARRIAL |
|-------|--------------------------|
| | UDASANTO CO. |
| | KEARNY PLANT, N.J. 07072 |

FAX NUMBER:

(201) 589-1773

PHONE NUMBER:

727-80 (Mon-Net) or (201) 578-80 Total Quality Designation of the position of the composition of the co

FROM AUGUST 7/90' TO DEC 19/90,

MANIFEST #NJA-0746613
0746422
0746421
0746427

C. BARRIAL

ROLLINS

LAND DISPOSAL RESTRICTION NOTIFICATION (per 40 CFR 268.7)

| NSTRUCT | FION: Complete Part I. Check and complete Part II or Part III. Complete and sign Part IV. |
|-------------|--|
| 'ARTL' | Generator, Reserence and Manisest Information |
| . (| Generator Name: Monsanto Company Kearny Plant EPA I.D. #: NJD002444933 |
| | Address: Foot of Pennsylvania Ave |
| 1. | City: Kearny State: N.J. Zip: 07032 |
| r. | RES Reference # (BR/HO/L/W/MO/OP): L10191 |
| j | EPA Waste Codes (list ALL codes for this stream and all relevant subcategories see reverse side of this form): |
| | D001 Ignitable liquids 10 % TOC or more |
| | |
| 3. | This stream is (check one) awastewater (<1% total organic carbon and <1% total suspended solids)X nonwastewater If wastewater, consult with your Sales or Customer Service Representative. |
| PARTII: | Wastes Subject to Land Disposal Restrictions (If the waste is non-hazardous or a "newly listed waste" identified in Part III below, complete Part III rather than Part II.) |
| RES Refere | ruant to 40 CFR 268.7, I am notifying RES(LA): X RES(NJ); RES(TX); RES of LA; OPC; TET that under the above ence and manifest numbers, I am shipping to you a waste identified by the EPA waste code(s) and subcategory(ies) listed in Part I above, object to the EPA Land Disposal Restrictions, as checked below. |
| <u>5.</u> | Check line 1. 2. 3 and/or 4. as applicable |
| 1 | P004; F005; F039. |
| 2 3 | Numerical treatment standard(s) specified in 40 CFR 268.41(a) (Table CCWE), per Attachment 3. |
| | Attachment 3, is X INCIN; DEACT; ADGAS to NEUTR; IMERC; STABL; or, for PCBs, Incineration in a TOSCA-permitted incinerator (RES(TX) only). |
| 4 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | Also check one or more of the following lines if applicable |
| X_ 5 | definition below). If (a), I have also checked the "California List" section of Attachment 1, which I am enclosing. |
| 6 | the enclosed Attachment 2. The waste (a) does (b) does not meet the definition of a "California List" wasts (see definition below). If (a), I have also checked the "California List section of Attachment 1, which I am enclosing. |
| 7 | A nickel or thallium "Calfornia List" waste (see definition below). I have checked the "Calfornia List" section of Attachment 1, which I am enclosing. |
| 8 | A specific extension or variance (other than a "capacity variance"), as I have checked on Line H or I of Attachment 2, which I am enclosing. |
| 9 | The waste already meets all relevant treatment standards. I have signed the required certification on page 2 of Attachment 2, which I am enclosing. |
| 1 | This waste is a lab pack. If it is an "Appendix IV lab pack" or an "Appendix V lab pack", I have signed the required certification on page 2 of Attachment 2, which I am enclosing. |
| PART II | I: Wastes NOT Subject to Land Disposal Restrictions |
| in Part I a | suant to 40 CFR 268.7, I am notifying RES(LA); RES(NJ); RES(TX); RES of LA; OPC; TET that, under the above and manifest numbers, I am shipping to you a waste which is non-hazardous and/or identified by the EPA waste code(s) listed above. The waste is not subject to the Land Disposal Restrictions because the waste is non-hazardous and/or consists only of one of the following EPA waste codes listed since November 8, 1984; D018-45, K064-66, K088, K090-91, K117-18, K123-26, K131-32, K136, 3, U359. |
| PART IV | : Authorized Representative |
| Signature | Date 9/10/90 |
| Print or T | Type Name Constantino J. Barrial |
| Title | Environmental Engineer |
| NOTE: A | "California List" waste is (a) a hazardous waste containing Haloseneted Organic Compounds at a concentration of 1000 mg/kg or |

NOTE: A "California List" waste is (a) a hazardous waste containing Halogenated Organic Compounds at a concentration of 1000 mg/kg or mg/l, or greater; or (b) a liquid hazardous waste (including free liquids) having a pH equal to or less than 3.0 or containing any of the following materials at a concentration equal to or greater than specified: PCB's, 50 ppm; or (in mg/l) free cyanides, 1000; As, 500; Cd, 100; Cr, 500; Ph KOD: Hr. 20: Ni. 134: Sa. 100: Tl. 130.

×

VHW-01 (REV. 8/80)

State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Manifest Section CN 928, Trenton, NJ 98625

Manifest Section
CN 028, Trenton, NJ 08625

Form Approve

Form Approved. OMB No. 2050-0039. Expires 9-30-91

| 160 | ise type or print in block letters. (Form designed for use on eilte (12-pitch) | typewnter.) | | 1 0777 | | | -0003. Expires | | | | |
|------------------|--|---|---------------------|-------------------|---|------------------------|--------------------------|----------------|--|--|--|
| | UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US EP. J J D O 2 : | | onitest Oentilos | 2 Pag | inform 1. Inform 1. Inform 1. Inform | ation in t requ | the shaded ired by Fe | areas derai | | | |
| | 3. Generator's Name and Mailing Address HONSANTO COMPANY, KEARNY PLANT | | A. St | ale Manifest Doc | ument N | ARA2 | 3 | | | | |
| | MONT OF PENNSYLVANIA AVE. KEARN | | B. St | ats Generator's I | D | | | | | | |
| | 4. Generator's Phone (901) 5F ()-0350 5. Transporter 1 Company Name 6. | | | BAME | | | 3.6 | | | | |
| | 1 ————— | الجمعاق بعقب الدران الأمواد المعارض المعارض المعارض المعارض المعارض المعارضات | | | | | | | | | |
| | 7. Transporter 2 Company Name 8. | | | | | | | | | | |
| | | | | E. Sta | ats Trans. ID | | | | | | |
| | 9. Designated Facility Name and Site Address 10. ROLLING ENVIRONMENTAL SERVICES | US EPA ID Numbe | r | - | naporter's Phone | | | | | | |
| | ROUTES 322 & 1-295 | | | | ate Facility's ID | | , | | | | |
| | | J D 0 5 3 2 8 8 | 2 3 9 | L | 1 : | 09)4 | 67-3100 |) | | | |
| | US DOT Description (Including Proper Shipping Name, Hazard Class HM | | 12. Conte | Type | 13. Total Quantity | 14. Unit Wt/Vol | Wdate N | · | | | |
| ۵ | * WASTE FLAMMABLE LIQUID, POISC | NOUS N.O.S. | | / | | | | | | | |
| E | (PHENOL), FLAMMABLE LIQUID, UN | 1992,RQ |] | | | _ | | | | | |
| E | DE DESCRIPTION OF THE PROPERTY | · · · · · · · · · · · · · · · · · · · | GOL | TT | 33340 |) <u>P</u> | DOI | OIL | | | |
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| | d | | <u> </u> | <u> </u> | <u> ill</u> | | | | | | |
| | | | | | | | | | | | |
| | J. Additional Descriptions for Materials Listed Above | | | K He | Indiing Codes fo | Wastes | Listed Abovo | | | | |
| | Speni Hefiklation Ends. Bolkirs | e anni 91 (L, | X) | | • | i | Elotto Finote | | | | |
| | Monene 20 499 Dropy one Coty | 0000 1 0 000 | | a. | <u> </u> | | 1 1 | | | | |
| İ | Phonol 20-60% alkyiphenol | 20-15% | | | | | , , | | | | |
| | n. d 15. Special Handling Instructions and Additional Information | | | b | | 10 | | | | | |
| | Use protective equipment and cl | othing. Avoid | d con | tac | with ey | 88 8 | nd ektr | ١. | | | |
| $\ $ | If contact, flush with plenty o | | | | | | | | | | |
| | phisician, 24 Hrs energency con 18. GENERATOR'S CERTIFICATION: I hereby declare that the contents | | | | | | See | | | | |
| | proper shipping name and ere classified, packed, marked, and labele according to applicable international and national government regula | id, and are in all respects in | proper con | dition f | for transport by t | ighway | | | | | |
| | If I am a large quantity generator, I certify that I have a program in plac economically practicable and that I have selected the gracticable matho | e to reduce the volume and to define a ment storage or de | oxicity of w | aste ge | nerated to the de | gree I har h minimi | ve determined i | to be | | | |
| | future threat to human health and the environment; QR , if I am a small q the best waste management method that is available to me and that | uantity generator. I have mad | de a good fa | lth effo | rt to minimize my | waste ge | neration and s | alect | | | |
| | Printed/Typed Name | Signature | 455 | } | | | Month Day | Year | | | |
| <u> </u> | Constantino J. Barrial | | | 1 | | | 0 9 110 | 1810 | | | |
| Ā | 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/1799d Name | 15: | | 1 | | | Marth Da | Vana | | | |
| ANSP | KEFER RELL THE | Signature | | int st | <i>j</i> | | Month Day /3 9 / 0 | Year } G | | | |
| P O R T | 18. Transporter 2 Acknowledgement of Receipt of Materials | 13.7 | 1 -000 | - 1 | 0 | | (4) (17) | 1.71.72 | | | |
| T E R | Printed/Typed Name | Signature | | | | | Month Day | Year | | | |
| # | 19. Discrepancy Indication Space | <u> </u> | | | | | | Щ | | | |
| F | | | | | | | $\langle i \rangle$ | | | | |
| F A C | | | | | | | | , | | | |
| į į | 20 Facility Owner or Operator Continuation of | | land control | | d in North | | | | | | |
| Ţ | 20. Facility Owner or Operator: Certification of receipt of hazardous mate | erials covered by this manif | est except | us note | a in item 18. | | Month Day | Yest | | | |

KULLING ENVIRORMENTAL SERVICES

LAND DISPOSAL RESTRICTION NOTIFICATION (per 40 CFR 268.7)

| PART. | L:Ge | nerator. Rescrence and M | Sanifest Information | • | | |
|--------------------|----------------------------|--|---|---|--|---|
| ı. | General | or Name: Monsanto Co | mnany Kearny | Plant | EPA I.D. | . NJD002444933 |
| 2. | | East of Penns | | | | |
| 3. | City: | Kearny | | State: | N, J | Zip: 07032 |
| 4, | RES Re | ference # (BR/HO/L/W) | /MO/OP): L101 | 91 , | fanisest #: | NJA 0746422 |
| 5 . | | iste Codes (list ALL codes for | | | | |
| | | Ignitable liquids | | | | |
| | | ABILL CHOLC AND AND | <u> </u> | | | |
| 6. | This strep | am is (check one) awaste water, consult with your Sales | water (<1% total organic or Customer Service E | carbon and <1% t | otal suspended | solids) X nonwastewater |
| <u>PART</u> | II: Waste | es Subject to Land Disposition, complete Part III rather the | al Restrictions (If the w | aste is non-hazard | lous or a "newly | listed waste" identified in Part |
| RES Re | ference and n | 0 CFR 268.7, I am notifying nanifest numbers, I am shipping to e EPA Land Disposal Restrictions | o you a waste identified by | LES(TX):RES of the EPA waste code | f LA;OPC; _ e(s) and subcate | TET that under the above gory(ies) listed in Part I above, |
| ی∆ | Check lin | ne 1. 2. 3 and/or 4. as applica | <u>ble</u> | | | |
| | _ 1. | Treatment standard, as checked F004; F005; | by me in Attachment I F039. | , which I am encl | losing, for | F001; F002; F003; |
| X | 2. | Numerical treatment standard(s) | , | • , , | • • • | |
| _X_ | _ 3. | Treatment standard(s) expressed Attachment 3, is X INCIN Incineration in a TOSCA | d as specified technology; DEACT; AD -permitted incinerator (R. | les) in 40 CFR 26 GAS fb NEUTR; ES(TX) only). | B.42(a), for whic IMERC; | h the required technology, per STABL; or, for PCBs, |
| | | Numerical treatment standard(s | | .43(a) (Table CCV | W), per Attachm | ent 3. |
| <u>₽.</u> • | Also chec | k one or more of the followin A D001-D011 waste which (a) | ig lines if applicable | | | . Parker I Flore |
| | _ 0. | A D001-D011 waste which (a) definition below). If (a), I have | also checked the "Calif | does not meet the ornia List" section | of Attachment | a "Gaillornia List" waste (see 1, which I am enclosing. |
| | | Treatment standard(s) with a the enclosed Attachment 2. T (see definition below). If (a), I | "capacity variance" until he waste (a) does (have also checked the " | 199_ o) does not California List sect | per Attachm meet the definit tion of Attachm | nent 3, as I have checked on ion of a "California List" waste sent 1, which I am enclosing. |
| | | A nickel or thallium "Calforn Attachment 1, which I am end | in List" waste (see defin losing. | ition below). 1 h | ave checked th | e "Calfornia List" section of |
| | _ 8. | A specific extension or variance which I am enclosing. | | · | | |
| | 9, | The waste already meets all rel- 2, which I am enclosing. | evant treatment standards. | I have signed the | required certific | ation on page 2 of Attachmen |
| | 10. | This waste is a lab pack. If it certification on page 2 of Atta | | | endix V lab paci | t", I have signed the required |
| <u>PART</u> | 111: W | astes NOT Subject to Lan | d Disposal Restriction | ns | | |
| in Part or more | e and mani: I above. Th | 60 CFR 268.7, I am notifying_fest numbers, I am shipping to see waste is not subject to the Lowing EPA waste codes listed at the codes of the codes. | you a waste which is nand Disposal Restrictions | on-hasardous and, because the waste | or identified by is non-haserdou | the EPA waste code(s) listed as and/or consists only of one |
| <u>PART</u> | · IV: A | Suthorized Representative / | | | | |
| Signa | ture | (from) | | Date | 10/19/9 | 0 |
| D-: | or Type Nam | Constantino J. | Barrial | | | |
| LLIUE | , | | | | | |

NOTE: A "California List" waste is (a) a hazardous waste containing Halogenated Organic Compounds at a concentration of 1000 mg/kg or mg/l, or greater; or (b) a liquid hazardous waste (including free liquids) having a pH equal to or less than 2.0 or containing any of the following materials at a concentration equal to or greater than specified: PCB's, 50 ppm; or (in mg/l) free cyanides, 1000; As, 500; Cd, 100; Cr, 500; Pb, 500; Hg, 20; Ni, 134; Se, 100; Tl, 130.

Month Day

case of an emergency or apill immediately call the

Printed/Typed Name

VHW-DO1 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 928, Trenton, NJ 08625
Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91 1. Generator's US EPA ID No. Manifest Document No. information in the shaded areas is not required by Federal UNIFORM HAZARDOUS WASTE MANIFEST 2. Page 1 Generator's Name and Mailing Address State Manifest Document Numbe NJA 0746422 MONSANTO COMPANY, KKARNY PLANT B. State Generator's ID FOOT OF PERSENANTA AVE., KEARNY, N.J., FROM 07032 Transporter (Company Name) 589-0330 BANK US EPA ID Number D. Transporter's Phone (600) 17 60 17 4 DONELAR ALEMAN Transporter 2 Company Name US EPA ID Number E. State Trans. ID 9. Designated Facility Name and Site Address US EPA ID Number Transporter's Phone (ROLLINS ENVIRONMENTAL SERVICES State Facility's ID ROUTES 322 & 1-295 N JD 0 5 3 2 8 8 2 8 7 Facility's Phone (RRIDGEPORT N.J.,08014 809-467-3100 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Total Waste No. **WIVo** WASTE PLAMMARLE LIQUID, PISONOUS, N.O.E. (P) (PHENOL), FLAMMABLE LIQUID, UN 1992, RO DOBI (0001)Ъ. Ĉ. Additional Descriptions for Materials Listed Above 711 (1,1) K. Handling Godes for Wastes Listed Above ិក្រ**ករ**ា Contaire 🖘 🤊 __36: <u>46 %</u> turane_ Divinytand Clatrater 20 30 40 % Alkylohenol 10~18% The contact, flush with elenty of water for at least 15 minutes. Call phisician, 24 Hrs. emergency contact CHEMTREC 1-800-424-9300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and tabeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. if I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree i have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to numan health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Month Day Year marine for the to a second Constantino J. Barrial <u> 111011 | 91910</u> 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Latte A Les 1 $I\!1MABA$ 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Signature

X

ROLLINS

LAND DISPOSAL RESTRICTION NOTIFICATION (per 40 CFR 268.7)

| INSTRUCTION: Complete Part I. Check and complete Part II or Part III. Complete and sign Part IV. |
|--|
| PARTI: Generator, Reference and Manifest Information |
| 1. Generalor Name: LIONSANTO CO, KJARNY RANT EPA 1.D. #: NJD002444933 |
| 2. Address: PENN SYC VANIA AVE |
| 3. City: KEARNY State: NJ. Zip: 07032 |
| 4. RES Rescrence # (BR/HO/L/W/MO/OP): L-7904 Manifest #: NJA 074642/ |
| 5. EPA Waste Codes (list ALL codes for this stream and all relevant subcategories see reverse side of this form): |
| THIS WASTE IS HAZAR DOUS UNDER THE STATE ON NEW |
| JERSEY 7:26-8.16 HAZARDOUS CONSTINENTS C-377 (PHENDL) |
| 6. This stream is (check one) awastewater (<1% total organic carbon and <1% total suspended solids)nonwastewater if wastewater, consult with your Sales or Customer Service Representative. |
| PARTII: Wastes Subject to Land Disposal Restrictions (If the waste is non-hazardous or a "newly listed waste" identified in Part III below, complete Part III rather than Part II.) |
| Pursuant to 40 CFR 268.7, I am notifying RES(LA): RES(NJ): RES(TX): RES of LA; OPC; TET that under the above RES Reference and manifest numbers, I am shipping to you a waste identified by the EPA waste code(s) and subcategory(ies) listed in Part I above, which is subject to the EPA Land Disposal Restrictions, as checked below. |
| A. Check line 3, 2, 3 and/or 4, as applicable |
| 1. Treatment standard, as checked by me in Attachment 1, which I am enclosing, for F001; F002; F003; F004; F005; F039. |
| 2. Numerical treatment standard(s) specified in 40 CFR 268.41(a) (Table CCWE), per Attachment 9. Treatment standard(s) expressed as specified technology(ies) in 40 CFR 268.42(a), for which the required technology, per |
| 3. Treatment standard(s) expressed as specified technology(ies) in 40 CFR 268.42(a), for which the required technology, per Attachment 3, is INCIN; DEACT; ADGAS fo NEUTR; IMERC; STABL; or, for PCDs, Incineration in a TOSCA-permitted incinerator (RES(TX) only). |
| 4. Numerical treatment standard(s) specified in 40 CFR 268.43(a) (Table CCW), per Attachment 3. |
| B. Also check one or more of the following lines if applicable |
| 5. A D001-D011 waste which (a) does (b) does not meet the definition of a "California List" waste (see definition below). If (a), I have also checked the "California List" section of Attachment 1, which I am enclosing. |
| 6. Treatment standard(s) with a "capacity variance" until 199 per Attachment 3, as I have checked on the enclosed Attachment 2. The waste (a) does (b) does not meet the definition of a "California List" waste (see definition below). If (a), I have also checked the "California List section of Attachment 1, which I am enclosing. |
| 7. A nickel or thallium "Calfornia List" waste (ree definition below). I have checked the "Calfornia List" section of Attachment 1, which I am enclosing. |
| 8. A specific extension or variance (other than a "capacity variance"), as I have checked on Line H or I of Attachment 2, which I am enclosing. |
| 9. The waste siready meets all relevant treatment standards. I have signed the required certification on page 2 of Attachment 2, which I am enclosing. |
| 10. This waste is a lab pack. If it is an "Appendix IV lab pack" or an "Appendix V lab pack", I have signed the required certification on page 2 of Attachment 2, which I am enclosing. |
| PART III: Wastes NOT Subject to Land Disposal Restrictions |
| Pursuant to 40 CFR 268.7, I am notifying RES(LA): RES(NJ): RES(TX): RES of LA; OPC; TET that, under the above reference and manifest numbers, I am shipping to you a waste which is non-hazardous and/or identified by the EPA waste code(s) listed in Part I above. The waste is not subject to the Land Disposal Restrictions because the waste is non-hazardous and/or consists only of one or more of the following EPA waste codes listed since November 8, 1984: D018-43, K084-86, K088, K090-91, K117-18, K123-26, K131-32, K136, U353, U359. |
| PART_IV: Authorized Remesentative |
| Signature Date 11/21/90 |
| Print or Type Name CONSTANTING J. BARRIAL |
| Title ENVIRONMENTAL ENGINEER |
| |

NOTE: A "California List" waste is (a) a hazardous waste containing Halogenated Organic Compounds at a concentration of 1000 mg/kg or mg/l, or greater; or (b) a liquid hazardous waste (including free liquids) having a pH equal to or less than 2.0 or containing any of the fellowing meterials at a concentration equal to or greater than specified: PCB's, 50 ppm; or (inmg/i) free syanides, 1000; As, 500; Cd, 100; Cr, 500;

Month Day Year

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VHW, SO1 (REV, 8/86)

State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Manifest Section CN 028 Trenton N.I. 08625

CN 028, Trenton, NJ 08625 Form Approved, OMB No. 2050-0039, Expires 9-30-91 Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law. Manifest No. 2. Page 1 UNIFORM HAZARDOUS WASTE MANIFEST of State Manifest Document Number Generator's Name and Mailing Address 0746421 Monearto Compeny Temmylvania Ave. Korrny. N.d. 97032 B. State Generator's ID Generator's Phone (707) 389-0350 BAME US EPA ID Number 5. Transporter 1 Company Name K // C. State Trans. ID VI. 1467711347 D. Transporter's Phone (407) Transporter 2 Company Name US EPA ID Number E. State Trans. ID US EPA ID Number 9. Designated Facility Name and Site Address Bollins Environmental Services F. Transporter's Phone (Route 322 % L-295 G. State Facility's ID Bridgeport, N.J., 08014 N 4 D 0 53 2 5 8 4 3 9 H. Feelity's Phone (608) 6 97-3100 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Waste No. Type Quantity No. WASTE PUISONOUS SOLID, CORROSIVE, A.O.S. (PRENOL) UN2928, PAIRON B D F) i O Westerna NERAT Ъ, O R Ċ. đ. K. Handling Codes for Wastes Listed Above Additional Descriptions for Materials Listed Above Commess tion: Hatardous only under Hips !! A CONTRACTOR buylthemal am Hierol 10-25 K Dedecylphenol 10-20 5 15. Special Handling Instructions and Additional Information
Avoid Contact with eyes and white if contact, flush where the wife pleasty
of water for at least 35 minutes, coll a phistoian, the contact protects sont protection equipment. For 24 fire emergency contact - CHEMPERC 11/2/2 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree i have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Month Day, Your Signature Constantino J. Harrial 17. Transporter 1 Acknowledgement of Receipt of Materials Binted/Typed Name Month Day Yea Signigiture X Vos MANAGE 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year Signature 19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Signature

Printed/Typed Name

×

ROLLINS

LAND DISPOSAL RESTRICTION NOTIFICATION (per 40 CFR 268.7)

| INSTRUCT | TION: Complete Part I Check and complete Part II or Part III Complete and sign Part IV. | |
|-------------|---|---------------------|
| PARTI: | Generator, Reference and Manifest Information | |
| 1. | Generator Name: MONSANTO COMPANY, KEARNY PLANT EPA I.D. #: NJD002444933 | |
| | Address: FOOT OF PENNSYLVANIA AVE | |
| 3 . | City: KEARNY State: N. J. Zip: 07032 | _ |
| 4. | RES Reference # (BR/HO/L/W/MO/OP): <u>L-10191</u> Manifest #: <u>NJA 0746407</u> | |
| 5. | EPA Waste Codes (list ALL codes for this stream and all relevant subcategories see reverse side of this form): | |
| | D001 Ignitable liquids 10 % TOC or more | |
| | | |
| 6, | This stream is (check one) awastswater (<1% total organic carbon and <1% total suspended solids) X nonwastewall wastewater, consult with your Sales or Customer Service Representative. | ter |
| PARTII: | : Wastes Subject to Land Disposal Restrictions (If the waste is non-hazardous or a "newly listed waste" identified in III below, complete Part III rather than Part II.) | <u>Part</u> |
| RES Refere | rsuant to 40 CFR 268.7, I am notifyingRES(LA); X RES(NJ); _RES(TX); _RES of LA; _OPC; _TET that under the absence and manifest numbers, I am shipping to you a waste identified by the EPA waste code(s) and subcategory(les) listed in Part I absolute to the EPA Land Disposal Restrictions, as checked below. | ove, |
| <u>A</u> . | Check line 1, 2, 3 and/or 4, as applicable | |
| 1 | Treatment standard, as checked by me in Attachment 1, which I am enclosing, forF001;F002;F F004;F005;F039. | 00 3 ; |
| 2 | Numerical treatment standard(s) specified in 40 CFR 268.41(a) (Table CCWE), per Attachment 5. | |
| _X_ 3 | Treatment standard(s) expressed as specified technology(ies) in 40 CFR 268.42(a), for which the required technology, Attachment S, is X INCIN; DEACT; ADGAS fo NEUTR; IMERC; STABL; or, for Position in a TOSCA-permitted incinerator (RES(TX) only). | per CBs, |
| B. 4 | Numerical treatment standard(s) specified in 40 CFR 268.43(a) (Table CCW), per Attachment 3. | |
| B. X 8 | | 1 |
| | definition below). If (a), I have also checked the "California List" section of Attachment 1, which I am enclosing. | |
| 6 | the enclosed Attachment 2. The waste (a) does (b) does not meet the definition of a "California List" w (see definition below). If (a), I have also checked the "California List section of Attachment 1, which I am enclosed | on aste ling. |
| 7 | Attachment 1, which I am enclosing. | of |
| 8 | A specific extension or variance (other than a "capacity variance"), as I have checked on Line H or I of Attachment which I am enclosing. | i t 2 , |
| 9 | The waste already meets all relevant treatment standards. I have signed the required certification on page 2 of Attach 2, which I am enclosing. | ment |
| 10 | 10. This waste is a lab pack. If it is an "Appendix IV lab pack" or an "Appendix V lab pack", I have signed the requestification on page 2 of Attachment 2, which I am enclosing. | iired |
| PART II | III: Wastes NOT Subject to Land Disposal Restrictions | |
| in Part I a | regant to 40 CFR 268.7, I am notifying RES(LA): RES(NJ); RES(TX): RES of LA; OPC; TET that, under the all and manifest numbers, I am shipping to you a waste which is non-hazardous and/or identified by the EPA waste code(s) is above. The waste is not subject to the Land Disposal Restrictions because the waste is non-hazardous and/or consists only of the following EPA waste codes listed since November 8, 1984: D018-43, K064-66, K088, K090-91, K117-18, K123-26, K131-32, K689, U369. | sted one |
| PART IV | V: Authorized Representative | |
| Signature | Date 10/26/90 | |
| Print or 1 | Type Name Constanting J. Barrial | |
| Title | Environmental Engineer | |
| mg/l, or g | "California List" waste is (a) a hazardous waste containing Halogenated Organic Compounds at a concentration of 1000 mg/k greater; or (b) a liquid hazardous waste (including free liquids) having a pH equal to or less than 2.0 or containing any of materials at a concentration equal to or greater than specified: PCB's, 50 ppm; or (in mg/l) free cyanides, 1000; As, 500; Cd, 100; Cr, Ig, 30; NI, 134; Se, 100; TI, 130. | the |

X

State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Manifest Section CN 028, Trenton, NJ 08625

| se type or print in block letters. (Form designed for use on elite | | | | <u> </u> | | 39. EXPIRES 9-30-5 |
|--|---|----------------------------------|-------------------------------|----------------------------------|----------------------------|---|
| UNIFORM HAZARDOUS 1. Generate WASTE MANIFEST 1. J Delication | irs US EPA 10 No. (1 (1 \$ 4 4 9 3 3 8 | Manifest Climent No. | 2. Page 1 | informa is not law. | tion in the | e shaded areas d by Federal |
| Generator's Name and Mailing Address | | | A. State | Manifest Docu | ment Num | ber |
| MONDANTO COMPANY, REARBY PLA | PAL: | | N | <u>IJA</u> | | 6407 |
| FORT OF PENNSYLVANIA AVE, KE | PRNY, N J., 07032 | 1 | B. State | Generator's ID | | *** |
| Generator's Phone () | 6. US EPA ID Numb | <u> </u> | | SAME | 5 | |
| S.J /PANS PORTATION CO | WIJTHOUT 7/16 M | | O' State | Trens ID | ·····; C | 0301 |
| 7. Transporter 2 Company Name | 8. US EPA ID Numb | | | | | 769-274 |
| | | 1 1 1 | 8 State | | 11 | 767017 |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Numb | er | | | | |
| ROBLING ENVIRONMENTAL SERVICE | res | Į | f. Trans | orter's Phone | () | |
| ROUTES 322 % 1-295 | | . [| | Facility's ID | | |
| BRIDGEPORT, N.A., 08014 | 1N JD 0 5 3 2 8 8 | | | | | -3100 |
| 11. US DOT Description (Including Proper Shipping Name, He HM | azerd Class, and (D Number) | 12. Conta | Typa | 13, Total Quantity | 14. Unit Wt/Vol | Waste No. |
| * (PHENOL), FLAMMABLE LIQUID, | | | | 48.00 | | 101011 |
| b. (D001) | | 10 011 | 1113 | 7000 | | 110 1013 |
| | | | Ì | | 1 | |
| | | | | | | 1 1 1 |
| C. | | | | 4 | | + |
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| | | 1.1.1 | | <u> </u> | | 1 1 1 |
| d. | | | | | | |
| | | | | 1 1 1 | | 1 |
| J. Additions trescription and Materials Listed Above | | 1-1-1-1 | K. Hand | ing Codes for | Wastes Lis | ted Above |
| The second of the set of the property of the | 140 C 1401 Br (1). | 1) | | | 1 | |
| a. That is the first | | | a | 1 | | ļ : |
| ेल्यत म् १२ व क्षुत्रभारता वेस | Trimer To the B | | | | i | , , |
| Figure 12 10 1 Arthur a gl | 1.5-1.6-35 | | h | | i | |
| 15. Special Handling Instructions and Additional Information Tisse protective eqtipment and | clothing. Avois | Cont a | t wi | th even | and | stin. |
| If contact Elvah with mants | the motor for at | Yeart | | | f '- 1 | , |
| phisician. 24 Rrs. emergency | contact CHEMTREC | 1-800 | -424 | - 9300 N | (A) - 3 | 2341 |
| GENERATOR'S CERTIFICATION: I hereby declare that the | contents of this consignment are fa | illy and accu | rately des | cribed above b | V | .15/0-1 |
| proper shipping name and are classified, packed, marked, according to applicable international and national governments. | and labeled, and are in all respects i | n proper con | dition for | transport by hi | ghway | |
| If I am a large quantity generator, I certify that I have a proof. | am in place to reduce the volume and | toxicity of wa | aste gener | ated to the deg | ree i have d | etermined to be |
| economically practicable and that I have selected the practical future threat to human health and the environment; OR, if I am | n a small quantity generator. I have mi | disposal curre ade a good fai | intiy availe ith effort to | ble to me which minimize my v | i minimizes vaste gener | the present and ation end select |
| the best waste management method that is available to me | | | 1 | | | |
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| Printed/Typed Name | Signature | to in | | | Ma | onth Day Year |
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| 18 Transporter 2 Acknowledgement of Receipt of Materials | | | 7 | 7 | | STATE OF THE |
| Printed/Typed Name | Signature | (| 1 | / | Мо | nth Day Year |
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| 9. Discrepancy Indication Space | | | | | | |
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| 20 Facility Owner or Operator Contillation of sealing | | W | | | | |
| Facility Owner or Operator: Certification of receipt of hazar Printed/Tyged Name | | | s noted in | 110m 19. | | nth Day Year |
| : (| Signature | (Å). | | | | 1 4 1 L |
| | | | | | , | بلدا الاسلام |

Monsanto

Monsanto Company Pennsylvania Avenue Kearny, New Jersey 07032 Phone: (201) 589-0350

December 10, 1991

Mr. James C. Sullivan U.S. EPA Region II Hazardous Waste Compliance 2AWM-HWC 26 Federal Plaza New York, N.Y. 10278

Attached is the information that you requested during your visit to Monsanto, Kearny Plant.

I am sure this satisfies your request. If anything else is needed, please do not hesitate to call me.

Sincerely,

Constantino Barrial

Environmental Specialist

Descriptions of Analyses of Drum Contents Monsanto Kearny Plant; Kearny, New Jersey

On May 7, 1991, drums of solid and liquid non-hazardous waste were disposed from the Monsanto Kearny Plant (see Manifest NJA 1034313). The solids waste stream included soil and drill cuttings from monitoring well construction. The liquid waste stream included well development water from monitoring well construction.

Waste Stream

Development water from monitoring wells 8D, 9D, 15D, 13S, and 15S was included in the 8 drums manifested as Non-Hazardous Liquid, N.O.S. Well development water consisted of potable tap water; however, there was probably some mixing of the with ground water. This introduces the possibility of mixing of ground-water constituents with well development water. To determine the potential for Resource Conservation and Recovery Act (RCRA) or Department of Transportation (DOT) hazardous waste, the analytical results for the wells described above were evaluated. The analytical results for total priority pollutants had been conducted by ENSECO, Inc., Somerset, New Jersey, a certified New Jersey Laboratory. The results of the ground-water monitoring for the wells described above are presented on Tables 1a, 1b, 1c, and 1d. Additionally, the laboratory results for monitoring well 8D are included as an example.

The results indicated that there were no likely RCRA or DOT hazardous wastes. However, due to the elevated levels of chlorobenzene in the ground water, the generator (Monsanto) chose to upgrade the wastes to state hazardous waste (Waste Code C-170), pursuant to N.J.A.C. 7:26-8.16(a). Therefore, the material was disposed at an appropriate facility, Rollins Environmental Services, Inc., Bridgeport, New Jersey.

Solid Waste Stream

Drill cuttings and soils from monitoring wells 13S and 15S were included in the 20 drums manifested as Non-Hazardous Solid and Sludge, N.O.S. Additionally, the drums contained miscellaneous material such as plastic and tyvex suits which were used by field personnel during drilling activities.

To determine the potential for RCRA or DOT hazardous waste, the analytical results for adjacent soil samples were evaluated. The analytical results for total priority pollutants had been conducted by ENSECO, Inc. The results indicated that there were no likely RCRA or DOT hazardous waste, with the exception of some metals. Therefore, a Toxicity Characteristics Leaching Procedure (TCLP) test was conducted for metals. Two composite solid samples were collected from the drums and sent to Reliance Laboratory, a New Jersey certified laboratory. The TCLP analytical results are included and in both samples the results were non-detect. Results of the environmental soil samples are also presented on Tables 2a and 2b. The laboratory results for, Sample 2 (B16-01), are included as an example.

Based on the priority pollutant results for the environmental samples and the TCLP results, the drum contents did not contain RCRA or DOT hazardous wastes. However, the wastes exceed the allowable levels of chromium in soils for the New

Jersey Environmental Clean-up Responsibility Act (ECRA). Monsanto therefore assumed responsibility of upgrading the waste to a New Jersey state waste (State Waste Code C-184), pursuant to N.J.A.C. 7:26-8.16(a) to avoid disposal of the waste to a sanitary landfill and for their own waste tracking purposes. The waste was therefore sent to an appropriate facility, Rollins Environmental Services, Inc., Bridgeport, New Jersey.



State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Manifest Section CN 028, Trenton, NJ 08625 type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-9:

| | | WASTE MANIFEST K J | erator's US EPA ID No. D D G 2 4 4 4 | 9 3 3 0 0° | Manifest cument No. | 2. Page 1 of | law. | | e shaded d by Fe | areas de rai |
|--------|----------|--|--|-------------------|---------------------------------|-----------------------------------|---------------------------------|---------------------------------------|----------------------------|-----------------|
| 1 | 3. | Generator's Name and Mailing Address Monsanto Chemical Company | 24 Hour Ene | roosev | | A. State M | lanifest Docu | | | . |
| | | Foot Of Pennsylvania Avenue | Contact: (| . = | | N State G | enerator's ID | LUS | 1313 |) |
| l | ١. | Rearry, New Jersey 07032 | 26011 FAA | 2000 | | B. State G | ielierator \$ 10 | | | |
| | 5. | Transporter 1 Company Name | (201) 589- 6. US | S EPA ID Numb | er | Se | 7 740 | | | |
| | | At 1 Express | 1" K 12 12 1 | 412 10 10 10 | ik ta ist | C. State T | | | C 10 10 1 | |
| | | Transporter 2 Company Name | | S EPA ID Numb | | D. Transp | orter's Phone | (? ?) ju | 70 25 | 69 |
| | | · | | 1 1 1 1 | | E. State T | rans. ID | | | |
| - | 9. | Designated Facility Name and Site Address | | S EPA ID Numb | er | | | | | |
| | | Rolling Environmental Service | 8 | | | | rter's Phone |) | | |
| | | Route 322 and I-295 Bridgeport, New Jersey 03814 | . W. T. B. O. | 5, 3, 2, 8, 8 | 2, 3, 3, 5 | G. State F | • | 9 \ 467 | -3105 | |
| | <u> </u> | Triogepoir, Mes Seren, Costa | 10,000 | 7 7 2 0 | 12. Conta | | 13. | 14. | | |
| | 11. | US DOT Description (Including Proper Shipping Named HM | ne, Hazard Class, and ID i | Vumber) | No. | | Total Quantity | Unit Wt/Vol | Waste N | lo. |
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| E | | Non-Hazerdoue Solid and S | mage, s.v.s. | | } | | ~ 1. | PFG | f =, | |
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| Ť | | Non-Hazardous Liquid, N.C | | | | DM F | 4355 | E C | 1 7 | |
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| 1 | J. | Additional Descriptions for Materials Light to + LJ Special Waste C184 Sand S | Strade | RIN. CO | ארדדט | K. Handir | ig Codes for | wastes Lis | ed Abbve | |
| | | Chromium and Compounds, F.O.S. | 14-32662 | 990/0 | Sauce | < 10 | CHO ! | B4 / U /% | ANDO | 0180 |
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| | ъ. | Chlorbenzene, LiQ 1# 328 | 162- CRILL | ING F | LUIDS | b. T 23 | 1101 | de HL | s dost | 11705 |
| | | Special Handling Instructions and Additional Informa | tion. | | | | | | | |
| | 1 | se protective equipment ith plenty of water for a | | | | | | | | |
| | (2) | y contact CEEMTREC 1-800- | 624-9300 | THIS. CO | 111 Pil. | TRICIO | 111. 44 | ***** | Sucre F | 30.2 |
| | | GENERATOR'S CERTIFICATION: I hereby ceclare th | | rsignment are fo | ully and accu | rately descr | bed above b | | | -i |
| Ш | | proper shipping name and are classified, packed, mar according to applicable international and national government. | ked, and labeled, and are | | | | | | | |
| | l | If I am a large quantity generator, I certify that I have a p | program in place to reduce | the volume and | toxicity of w | aste generat | ed to the deg | ee I have d | etermined (| tobe i |
| Ш | | economically practicable and that I have selected the pra- future threat to human health and the environment; OR, | if I am a small quantity gen | erator, I have ma | disposal curre ade a good fa | ently availabl ith effort to a | le to me which ninimize my w | minimizes aste gener | the present ation and s | elect |
| | | the best waste management method that is available t | | | | | | | | |
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| Ş | 18. | Transporter 2 Acknowledgement of Receipt of Materia | ils | 1,7 | | | | | | |
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| Ì | 20. | Facility Owner or Operator: Certification of receipt of | hazardous materials cove | red by this man | ifest except | as noted in I | tem 19. | · · · · · · · · · · · · · · · · · · · | | |
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| - 1 | · | | | de collections | • | | | | | <i>z</i> . |

Table 1a. Summary of Analytical Results for Total Volatile Organic Compounds in Ground Water. Monsanto Kearny Plant.

| _ | Sample Identification | | | | | | | |
|---------------|-----------------------|-----|-----|-------------|-----|-----|--|--|
| | 8d | 9d | 12d | 15 d | 13s | 15s | | |
| Acetone | ND | 58 | 49 | 20 | ND | ND | | |
| Benzene | 31 | ND | ND | 14 | ND | ND | | |
| Chlorobenzene | 960 | 660 | 15 | 1,200 | ND | ND | | |
| Chloroform | ND | ND | ND | 18 | ND | ND | | |
| Ethylbenzene | ND | ND | ND | 5 | ND | ND | | |
| Toluene | 7 | ND | ND | 6 | ND | 8 | | |
| Xylenes | ND | ND | ND | 9 | ND | 10 | | |

Samples were collected June 1990.

ND = Not detected above detection level.

Table 1b. Summary of Analytical Results for Total Semivolatile Organic Compounds in Ground Water. Monsanto Kearny Plant.

| | Sample Identification | | | | | | | |
|------------------------|-----------------------|----|-----|-----|-----|-----|--|--|
| | 8d | 9d | 12d | 15d | 13s | 15s | | |
| Phenoi | ND | ND | ND | ND | ND | ND | | |
| 2-Methylphenol | ND | ND | ND | ND | ND | 10 | | |
| 4-Methylphenol | ND | ND | ND | ND | ND | 14 | | |
| 2,4-Dimethylphenol | ND | ND | ND | ND | ND | 17 | | |
| Naphthalene | ND | ND | ND | ND | ND | 51 | | |
| Dimethyl Phthalate | ND | ND | ND | ND | 18 | ND | | |
| Dibenzofuran | ND | ND | ND | ND | ND | 16 | | |
| Acenapthene | ND | ND | ND | ND | ND | 25 | | |
| 2-Methylnaphthalene | ND | ND | ND | 76 | ND | ND | | |
| Fluoranthene | ND | ND | ND | ND | ND | 19 | | |
| Fluorene | ND | ND | ND | ND | ND | 21 | | |
| Phenanthrene | ND | ND | ND | ND | ND | 34 | | |
| Pyrene | ND | ND | ND | ND | ND | 17 | | |
| 1,3-Dichlorobenzene | 43 | ND | ND | ND | ND | ND | | |
| 1,4-Dichlorobenzene | 380 | ND | ND | 63 | ND | ND | | |
| 1,2-Dichlorobenzene | 410 | ND | ND | 13 | ND | ND | | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | ND | | |

Samples were collected June 1990.

ND = Not detected above detection level.

Table 1c. Summary of Analytical Results for Total PCBs in Ground Water Samples. Monsanto Kearny Plant.

| | Sample Identification | | | | | | | | |
|------------|-----------------------|-----|-----|-------------|-----|-----|--|--|--|
| | 8d | 9d | 12d | 15 d | 13s | 15s | | | |
| Total PCBs | ND | 1.5 | ND | ND | ND | ND | | | |

Samples were collected June 1, 1990. ND = Not detected above detection level.

Table 1d. Summary of Analytical Results for Total Inorganic Parameters in Ground Water. Monsanto Kearny Plant.

| | Sample Identification | | | | | | |
|-----------|-----------------------|------|------|------|------|------|------|
| | 8d | 9d | 12d | 13d | 15d | 13s | 15s |
| Aluminium | 1 | 1 | 0.8 | 8 | 4 | 0.9 | 4 |
| Antimony | ND | 0.02 | ND | ND | ND | ND | ND |
| Arsenic | ND | ND | ND | ND | 0.1 | 0.03 | 0.15 |
| Barium | ND | ND | 0.01 | 0.05 | 0.02 | 0.01 | 0.02 |
| Cadmium | ND | ND | ND | ND | ND | ND | ND |
| Calcium | 119 | 178 | 184 | 68 | 79 | 43 | 25 |
| Chromium | 0.02 | 0.02 | 0.02 | 0.04 | 0.03 | ND | 0.03 |
| Copper | ND | ND | ND | 0.01 | 0.02 | ND | 0.02 |
| Iron | 13 | 2 | 3 | 15 | 16 | 35 | 69 |
| Lead | ND | ND | ND | ND | ND | ND | ND. |
| Magnesium | 186 | 165 | 199 | 90 | 146 | 6 | 13 |
| Manganese | 0.7 | 0.1 | 0.1 | 0.5 | 0.6 | 1 | 0.5 |
| Mercury | ND | ND | ND | ND | ND | ND | ND |
| Potassium | 138 | 115 | 157 | 73 | 93 | 10 | 81 |
| Silver | ND | ND | 0.05 | ND | ND . | ND | ND |
| Sodium | 867 | 1070 | 1020 | 799 | 563 | 14 | 66 |
| Vanadium | 0.02 | 0.04 | 0.03 | 0.2 | 0.03 | 0.01 | 0.02 |
| Zinc | 0.04 | 0.02 | 0.02 | 0.06 | 0.06 | 0.02 | 0.07 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND |

Samples were collected June 1, 1990.

ND = Not detected above detection level.

Table 2a. Summary of Analytical Results for Total Organic Parameters in Soil Samples. Monsanto Kearny Plant.

| | Sample Identification | | | |
|------------------------|-----------------------|-----|--------|--|
| | 1 | 2 | 3 | |
| VOCs | | | | |
| Acetone | ND (B) | ND | ND (B) | |
| Trichloroethene | ND | ND | 0.03 | |
| Tetrachloroethene | ND | ND | 0.01 | |
| SVOCs | | | | |
| Anthracene | ND | 2.1 | ND | |
| Benzo (a) Anthracene | ND | 2.5 | ND | |
| Benzo (a) Pyrene | ND | 1.9 | ND | |
| Benzo (b) Fluoranthene | ND | 4.1 | 1.7 | |
| Chrysene | ND | 2.5 | ND | |
| Fluoranthene | ND | 5.7 | 3.4 | |
| Phenanthrene | ND | 3.3 | 2.7 | |
| Pyrene | ND | 4.4 | 3.2 | |
| PCBs | | | | |
| Total PCBs | 5.3 | ND | 15.7 | |

Samples were collected June 1990.

Sample 1 = Field Sample ACD-01

Sample 2 = Field Sample B16-01. Sample 3 = Field Sample TSP-01.

ND = Compound not detected above detection level.

⁽B)Compound concentration in the sample was less than the concentration in method blank.

Results are reported in milligrams per kilogram (mg/kg) or parts per million (ppm).

Table 2b. Summary of Analytical Results for Total Inorganic Parameters in Soil Samples. Monsanto Kearny Plant.

| _ | | Sample Identification | |
|--------------------------|---------------------|-----------------------|--------------------|
| Total Metals and Cyanide | 1 | 2 | 3 |
| Aluminium | 4620.0 | 8190.0 | 6400.0 |
| Antimony | 9.7 ¹ | 9.8 ¹ | 10.4 ^J |
| Arsenic | 4.1 ^J | 10.8 ¹ | 8.9 ¹ |
| Barium | 49.1 ¹ | 183.0 | 60.1 |
| Beryllium | 0.4 ³ | 0.7 | 0.4 |
| Cadmium | 1.0 ^j | 1.0 ^t | 1.0 ^J |
| Calcium | 5280.0 | 18000.0 | 7150.0 |
| Chromium | 26.1 | 369.0 | 230.0 |
| Cobalt | 4.2 | 9.1 | 10.2 |
| Copper | 72.7 | 142.0 | 76.4 |
| ron | 17900.0 | 23300.0 | 22200.0 |
| _ead | 114.0 | 270.0 | 136.0 |
| Magnesium | 1140.0 | 7270.0 | 2850.0 |
| Manganese | 143.0 | 453.0 | 461.0 |
| Mercury | 0.3 | 74.0 | 0.3 |
| Nickel | 22.0 ^J | 41.5 | 68.0 |
| Potassium | 1820.0 ¹ | 1220.0 ^J | 1040.0 |
| Selenium | 0.4 ¹ | 0.7 | 0.5 ^J |
| Silver | 0.7 ³ | 0.7 ^j | 0.7 ^J |
| Sodium | 392.0 ¹ | 392.0 ¹ | 416.0 ^J |
| Thallium | 0.41 | 0.4 | 0.5 ^J |
| Vanadium | 19.3 | 52.3 | 128.0 |
| Zinc | 215.0 | 249.0 | 147.0 |
| Cyanide | ND | ND | ND |

Samples were collected in June 1990.

Sample 1 = Field Sample ACD-01.

Sample 2 = Field Sample B16-01. Sample 3 = Field Sample TSP-01.

ND = Not detected.

¹Sample concentration was detected below the detection level.

All results are reported in milligrams per kilogram (mg/kg) or parts per million (ppm).

Reliance Laboratories Inc.

3090 Woodbridge Avenue Edison, NJ 08837 Ph. (201) 738-5454 Fax: (201) 738-5841

LAB ID 12687

CERTIFICATE OF ANALYSIS

Customer: Roux Associates Inc.
Sample: Soil # 1 Monsanto Kearny Plant
Date: 29 January 1991
Reference: K-1318

Attention : Mr.J.Powley

2 February 1991

| TCLP Metals | Result, ppm |
|-------------|-------------|
| Arsenic | Trace < 1 |
| Barium | * ND < 1 |
| Cadmium | Trace < 1 |
| Chromium | ND < 1 |
| Lead | ND < 1 |
| Mercury | ND < 0.05 |
| Selenium | Trace < 1 |
| Silver | ND < 1 |

* ND = Not Detected

G. P. Kirpalani

Manager

Reliance Laboratories Inc.

3090 Woodbridge Avenue Edison, NJ 08837 Ph. (201) 738-5454 Fax: (201) 738-5841

LAB ID 12687

CERTIFICATE OF ANALYSIS

Customer: Roux Associates Inc.
Sample: Soil # 2 Monsanto Kearny Plant
Date: 29 January 1991

Reference: K-1319

Attention : Mr.J.Powley

2 February 1991

| TCLP Metals | Result, ppm |
|-------------|-------------|
| Arsenic | * ND < 1 |
| Barium | ND < 1 |
| Cadmium | Trace < 1 |
| Chromium | ND < 1 |
| Lead | ND < 1 |
| Mercury | ND < 0.05 |
| Selenium | Trace < 1 |
| Silver | ND < 1 |

* ND = Not Detected

G. P. Kirpalani

Manager

| ROUX | | | С | HAIN C | F CU | STOD | Y | | K-1 | 317 | N º 0 | 0 <mark>996</mark> J |
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| | FOR | DATE | TIME | SEAL INTACT Y OR N | | | (SIGNATUR | | OR | DATE | TIME | SEAL INTACT Y OR N |
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Client Name: Roux Associates Client ID: P1-8D

Lab ID: 008046-0001-SA Matrix: **AQUEOUS** Authorized: 12 JUN 90

Enseco ID: 3022517 Sampled: 11 JUN 90 Prepared: NA Received: 11 JUN 90 Analyzed: 25 JUN 90

| Parameter | Result | Units | Reporting Limit | |
|---------------------------|--------|--------|--------------------|---|
| Chloromethane | ND | ug/L | 10 | |
| Bromomethane | ND | ug/L | 10 | |
| Vinyl chloride | ND | ug/L | 10 | |
| Chloroethane | ND | ug/L | 10 | |
| Methylene chloride | ND | ug/L | 5.0 | |
| Acetone | 3.8 | ug/L | 10 | J |
| Carbon disulfide | ND | ug/L | 5.0 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | |
| 1,2-Dichloroethene | | | | _ |
| (cis/trans) | 4.8 | ug/L | 5.0 | J |
| Chloroform | 3.3 | ug/L | 5.0 | J |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | |
| 2-Butanone | ND | ug/L | 10 | |
| 1,1,1-Trichloroethane | ND . | ug/L | 5.0 | |
| Carbon tetrachloride | ND | ug/L | 5.0 | |
| Vinyl acetate | ND | ug/L | 10 | |
| Bromodichloromethane | ND | ug/L | 5.0 | |
| 1,2-Dichloropropane | ND | ug/L | 5.0 | |
| trans-1,3-0ichloropropene | ND | ug/L | 5.0 | |
| Trichloroethene | ND | ug/L | 5.0 | |
| Dibromochloromethane | ND | ug/L | 5.0 | |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | |
| Benzene | 31 | ug/L | 5.0 | |
| cis-1,3-Dichloropropene | NO | ug/L | 5.0 | |
| 2-Chloroethyl vinyl ether | ND | ug/L | 10 | |
| Bromoform | ND | ug/L | 5.0 | _ |
| 4-Methy1-2-pentanone | 1.2 | ug/L | 10 | J |
| 2-Hexanone | ND | ug/L | 10 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | |
| Tetrachloroethene | ND _ | ug/L | 5.0 | |
| Toluene | 6.7 | ug/L | 5.0 | _ |
| Chlorobenzene | 960 | ug/L | 50 | D |
| Ethylbenzene | ND | ug/L | 5.0 | |
| Styrene | ND | ug/L | 5.0 | |
| Xylenes (total) | ND | ug/L | 5.0 | |
| Toluene-d8 | 102 | * | | |
| 4-Bromofluorobenzene | 101 | 1 1 | | |
| 1,2-Dichloroethane-d4 | 100 | 7. | | |

(continued on following page)

ND = Not detected NA = Not applicable

0000002

Reported By: Khaja Eazazuddin

Approved By: Shu-Wen Kao

Client Name: Roux Associates

Client ID:

Lab ID: Matrix:

P1-8D

008046-0001-SA AQUEOUS

Authorized: 12 JUN 90

Enseco ID: 3022517

Sampled: 11 JUN 90

Prepared: NA

Received: 11 JUN 90

Analyzed: 25 JUN 90

Note J: Result is detected below the reporting limit or is an

estimated concentration.

Note D : Compound identified at a secondary dilution.

ND - Not detected

NA = Not applicable

0000003

Reported By: Khaja Eazazuddin

Approved By: Shu-Wen Kao

Client Name: Roux Associates

Client ID: P1-80

7

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4

Lab ID: Matrix: 008046-0001-SA

Enseco ID: 3022517 Sampled: 11 JUN 90 Prepared: NA Received: 11 JUN 90 Analyzed: 25 JUN 90 AQUEOUS Authorized: 12 JUN 90

| Unknown 7.0 ug/L J 1,3-Dichlorobenzene 66 ug/L J 1,4-Dichlorobenzene 580 ug/L J 1,2-Dichlorobenzene 640 ug/L J TID Compound 5 ND ug/L TID Compound 6 ND ug/L TID Compound 7 ND ug/L TID Compound 8 ND ug/L TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L TID Compound 14 ND ug/L | | | | Reporting | |
|--|---------------------|--------|-------|-----------|---|
| 1,3-Dichlorobenzene 580 ug/L J 1,4-Dichlorobenzene 580 ug/L J 1,2-Dichlorobenzene 640 ug/L J TID Compound 5 ND ug/L TID Compound 6 ND ug/L TID Compound 7 ND ug/L TID Compound 8 ND ug/L TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L TID Compound 14 ND ug/L | Parameter | Result | Units | Limit | |
| 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Di | | 7.0 | ug/L | | J |
| 1,4-Dichlorobenzene 580 ug/L J 1,2-Dichlorobenzene 640 ug/L J TID Compound 5 ND ug/L TID Compound 6 ND ug/L TID Compound 7 ND ug/L TID Compound 8 ND ug/L TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L TID Compound 14 ND ug/L | 1,3-Dichlorobenzene | 66 | ug/L | | J |
| 1,2-Dichlorobenzene 1,2-Di | 1,4-Dichlorobenzene | 580 | | | J |
| TID Compound 5 ND ug/L TID Compound 6 ND ug/L TID Compound 7 ND ug/L TID Compound 8 ND ug/L TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L | 1,2-Dichlorobenzene | 640 | | | |
| TID Compound 6 TID Compound 7 ND ug/L TID Compound 8 ND ug/L TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L TID Compound 14 ND ug/L | TID Compound 5 | | | | |
| TID Compound 7 ND ug/L TID Compound 8 ND ug/L TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L | | | | | |
| TID Compound 8 ND ug/L TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L | TID Compound 7 | | | | |
| TID Compound 9 ND ug/L TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L | TID Compound 8 | | | | |
| TID Compound 10 ND ug/L TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L | TID Compound 9 | | | | |
| TID Compound 11 ND ug/L TID Compound 12 ND ug/L TID Compound 13 ND ug/L TID Compound 14 ND ug/L | TID Compound 10 | | | | |
| TID Compound 12 TID Compound 13 ND ug/L TID Compound 14 ND ug/L ND ug/L | | | | | |
| TID Compound 13 ND ug/L TID Compound 14 ND ug/L | | | | | |
| TID Compound 14 ND ug/L | TID Compound 13 | | | | |
| | | | • | | |
| TID Compound 15 ND ug/L | TID Compound 15 | | - | | |

Note J: Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected NA = Not applicable

0000004

Reported By: Khaja Eazazuddin

Approved By: Shu-Wen Kao

Client Name: Roux Associates
Client ID: P1-8D

Lab ID: 008046-0D01-SA Enseco ID: 3022517

Received: 11 JUN 90 Analyzed: 26 JUN 90 Sampled: 11 JUN 90 Prepared: 16 JUN 90 **AQUEOUS** Matrix: Authorized: 12 JUN 90

| | | | Reporting | |
|---------------------------|--------|-------|-----------|---|
| Parameter | Result | Units | Limit | |
| Pheno1 | ND | ug/L | 20 | |
| bis(2-Chloroethyl) ether | ND | ug/L | 20 | |
| 2-Chlorophenol | ND | ug/L | 20 | |
| 1.3-Dichlorobenzene | 43 | ug/L | 20 | |
| 1,4-Dichlorobenzene | 380 | ug/L | 20 | |
| Benzyl alcohol | ND | ug/L | 20 | |
| 1,2-Dichlorobenzene | 41D | ug/L | 20 | |
| 2-Methylphenol | ND | ug/L | 20 | |
| bis(2-Chloroisopropyl) | | | | |
| ether | ND | ug/L | 20 | |
| 4-Methylphenol | ND | ug/L | 20 | |
| N-Nitroso-di- | *** | • | | |
| n-propylamine | ND | ug/L | 20 | |
| Hexachloroethane | ND | ug/L | 20 | |
| Nitrobenzene | ND | ug/L | 20 | |
| Isophorone | ND | ug/L | 20 | |
| 2-Nitrophenol | ND | ug/L | 20 | |
| 2,4-Dimethylphenol | ND | ug/L | 20 | |
| Benzoic acid | ND | ug/L | 100 | |
| bis(2-Chloroethoxy)- | *** | -9, - | | |
| methane | ND | ug/L | 20 | |
| 2,4-Dichlorophenol | ND | ug/L | 20 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 20 | |
| Naphthalene | 6.8 | ug/L | 20 | J |
| 4-Chloroaniline | ND | ug/L | 20 | • |
| Hexachlorobutadiene | ND | ug/L | 20 | |
| 4-Chloro-3-methylphenol | ND | ug/L | 20 | |
| 2-Methylnaphthalene | 1.3 | ug/L | 20 | J |
| Hexachlorocyclopentadiene | ND | ug/L | 20 | • |
| 2,4,6-Trichlorophenol | ND | ug/L | 20 | |
| 2,4,5-Trichlorophenol | ND | ug/L | 100 | |
| 2-Chloronaphthalene | ND | ug/L | 20 | |
| 2-Nitroaniline | ND | ug/L | 100 | |
| Dimethyl phthalate | ND | ug/L | 20 | |
| Acenaphthylene | ND | ug/L | 20 | |
| 3-Nitroaniline | ND | ug/L | 100 | |
| Acenaphthene | ND | ug/L | 20 | |
| 2,4-Dinitrophenol | ND | ug/L | 100 | |
| 4-Nitrophenol | ND | ug/L | 100 | |
| Dibenzofuran | ND | ug/L | 20 | |
| 2.4-Dinitrotoluene | ND | ug/L | 20 | |
| | 110 | -A, - | | |

(continued on following page)

ND = Not detected NA = Not applicable

0000037

Reported By: Faiza Botros

Approved By: Alicia Duran-Capece

Client Name: Roux Associates Client ID: P1-8D Lab ID: 008046-0001-SA 008046-0001-SA AQUEOUS Enseco ID: 3022517

Sampled: 11 JUN 90 Prepared: 16 JUN 90 Received: 11 JUN 90 Analyzed: 26 JUN 90 Matrix: Authorized: 12 JUN 90

| Parameter | Result | Units | Reporting Limit |
|------------------------|--------|---------------------------------------|--------------------|
| 2,6-Dinitrotoluene | ND | ug/L | 20 |
| Oiethyl phthalate | ND | ug/L | 20 |
| 4-Chlorophenyl | | | |
| phenyl ether | ND | ug/L | 20 |
| Fluorene | ND | ug/L | 20 |
| 4-Nitroaniline | ND | ug/L | 100 |
| 4,6-Dinitro- | | _ | |
| 2-methylphenol | ND | ug/L | 100 |
| N-Nitrosodiphenylamine | ND | ug/L | 20 |
| 4-Bromophenyl | | | |
| phenyl ether | ND | ug/L | 20 |
| Hexach1 orobenzene | ND | ug/L | 20 |
| Pentachlorophenol | ND | ug/L | 100 |
| Phenanthrene | ND | ug/L | 20 |
| Anthracene | ND | ug/L | 20 |
| Di-n-butyl phthalate | ND | ug/L | 20 |
| Fluoranthene | ND | ug/L | 20 |
| Pyrene | ND | ug/L | 20 |
| Butyl benzyl phthalate | ND | ug/L | 20 |
| 3,3'-Dichlorobenzidine | ND | ug/L | 40 |
| Benzo(a)anthracene | ND | ug/L | 20 |
| bis(2-Ethylhexyl) | | _ | |
| phthalate | ND | ug/L | 20 |
| Chrysene | ND | ug/L | 20 |
| Di-n-octyl phthalate | ND | ug/L | 20 |
| Benzo(b)fluoranthene | ND | ug/L | 20 |
| Benzo(k)fluoranthene | ND | ug/L | 20 |
| Benzo(a)pyrene | ND | ug/L | 20 |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 20 |
| Dibenz(a,h)anthracene | ND | ug/L | 20 |
| Benzo(g,h,i)perylene | ND | ug/L | 20 |
| Nitrobenzene-d5 | 73 | * * * * * * * * * * * * * * * * * * * | , |
| 2-Fluorobiphenyl | 76 | 7, | |
| Terphenyl-d14 | 76 | * | |
| Pheno1-d5 | 23 | * | |
| 2-Fluorophenol | 39 | 7. | |
| 2,4,6-Tribromophenol | 68 | 7. | |

Note J: Result is detected below the reporting limit or is an estimated concentration.

ND - Not detected NA = Not applicable

0000038

Reported By: Faiza Botros

Approved By: Alicia Duran-Capece

Client Name: Roux Associates

Client ID: P1-8D

Lab ID: 008046-0001-SA

Enseco ID: 3022517 Sampled: 11 JUN 90 Prepared: NA Received: 11 JUN 90 AQUEOUS Matrix: Authorized: 12 JUN 90 Analyzed: 26 JUN 90

| | Reporting - |
|-------------------------|-------------|
| Parameter Result Units | Limit |
| T1D Compound 1 ND ug/L | |
| TID Compound 2 ND ug/L | |
| TID Compound 3 ND ug/L | |
| TID Compound 4 ND ug/L | |
| TID Compound 5 ND ug/L | |
| TID Compound 6 ND ug/L | |
| TID Compound 7 ND ug/L | |
| TID Compound 8 ND ug/L | |
| TID Compound 9 ND ug/L | |
| TID Compound 10 ND ug/L | |
| TID Compound 11 ND ug/L | |
| TID Compound 12 ND ug/L | |
| TID Compound 13 ND ug/L | |
| TID Compound 14 ND ug/L | • |
| TID Compound 15 ND ug/L | |
| TID Compound 16 ND ug/L | |
| TID Compound 17 ND ug/L | |
| TID Compound 18 ND ug/L | |
| TID Compound 19 ND ug/L | |
| TID Compound 20 ND ug/L | |
| TID Compound 21 ND ug/L | |
| TID Compound 22 ND ug/L | |
| TID Compound 23 ND ug/L | |
| TID Compound 24 ND ug/L | |
| TID Compound 25 ND ug/L | |

ND = Not detected NA = Not applicable -

6000032

Reported By: Faiza Botros

Approved By: Alicia Duran-Capece

Client Name: Roux Associates Client ID: P1-8D

Lab ID:

008046-0001-SA

Matrix: Authorized: 12 JUN 90

AQUEOUS

Enseco ID: 3022517 Sampled: 11 JUN 90 Prepared: 16 JUN 90

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Received: 11 JUN 90 Analyzed: 16 JUL 90

| Parameter | Result | Units | Reporting Limit |
|--------------|--------|-------|--------------------|
| Aroclor 1016 | ND | ug/L | 0.25 |
| Aroclor 1221 | ND | ug/L | 0.25 |
| Aroclor 1232 | ND | ug/L | 0.25 |
| Aroclor 1242 | ND | ug/L | 0.25 |
| Aroclor 1248 | ND | ug/L | 0.25 |
| Aroclor 1254 | ND | ug/L | 0.50 |
| Aroclor 1260 | ND | ug/L | 0.50 |

ND = Not detected NA = Not applicable

Reported By: Martha Sullivan

Approved By: Linda Hahn

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Date

Client Name: Roux Associates

Client ID:

Lab ID:

Parameter

P1-8D

008046-0001-SA AQUEOUS

Matrix: Authorized:

12 JUN 90

Enseco ID: 3022517 Sampled: 11 JUN 90 Prepared: See Below

Received: 11 JUN 90 Analyzed: See Below

Date

Reporting Analytical Prepared Analyzed Result Units Limit Method

Cyanide, Total ND mg/L 0.01 335.3 15 JUN 90 19 JUN 90

ND = Not detected NA = Not applicable

Reported By: Maria Javier

Approved By: Joasia Przyluska

Client Name: Roux Associates Client ID: TSP-SS-D1-01,02

Lab ID: 007766-0001-SA

Matrix: SOIL

Enseco ID: 3020578 Sampled: 22 MAY 90 Prepared: NA Received: 22 MAY 9D Analyzed: 31 MAY 90 Authorized: 23 MAY 90

| Parameter | Result | Wet wt. Units | Reporting Limit | - |
|---------------------------|--------|------------------|--------------------|---|
| Chloromethane | ND | ug/kg | 20 | G |
| Bromomethane | ND | ug/kg | 20 | |
| Vinyl chloride | ND | ug/kg | 20 | |
| Chloroethane | ND | ug/kg | 20 | |
| Methylene chloride | ND | ug/kg | 10 | |
| Acetone | 21 | ug/kg | 20 | В |
| Carbon disulfide | ND | ug/kg | 10 | |
| 1,1-Dichloroethene | ND | ug/kg | 10 | |
| 1,1-Dichloroethane | ND | ug/kg | 10 | |
| 1,2-Dichloroethene | | • • | | |
| (cis/trans) | ИD | ug/kg | 10 | |
| Chloroform | ND | ug/kg | 10 | |
| 1,2-Dichloroethane | ND | ug/kg | 10 | |
| 2-Butanone | ND | ug/kg | 20 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 10 | |
| Carbon tetrachloride | ИĎ | ug/kg | 10 | |
| Vinyl acetate | ND | ug/kg | 20 | |
| Bromodichloromethane | ND | ug/kg | 10 | |
| 1,2-Dichloropropane | ND | ug/kg | 10 | |
| cis-1,3-Dichloropropene | ИD | ug/kg | 10 | |
| Trichloroethene | 13 | ug/kg | 10 | |
| Oibromochioromethane | ИD | ug/kg | 10 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 10 | |
| Benzene | ND | ug/kg | 10 | |
| trans-1,3-Dichioropropene | ND | ug/kg | 10 | |
| 2-Chloroethyl vinyl ether | ND | ug/kg | 20 | |
| Bromoform | ND | ug/kg | 10 | |
| 4-Methy1-2-pentanone | ND | ug/kg | 20 | |
| 2-Hexanone | ND | ug/kg | 20 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 10 | |
| Tetrachloroethene | 31 | ug/kg | 10 | |
| Toluene | ND | ug/kg | 10 | |
| Chlorobenzene | ND | ug/kg | 10 | |
| Ethylbenzene | ИD | ug/kg | 10 | |
| Styrene | ND | ug/kg | 10 | |
| Xylenes (total) | ND | ug/kg | 10 | |
| 1,2-Dichloroethane-d4 | 108 | * | | |
| Toluene-d8 | 107 | * * * | | |
| 4-Bromofluorobenzene | 91 | * | | |

(continued on following page)

ND = Not detected NA - Not applicable

Reported By: Steve Bucher

Approved By: Khaja Eazazuddin

Client Name: Roux Associates

Client ID: TSP-SS-01-01,02

Lab ID: 007766-0001-SA Enseco ID: 3020578

Sampled: 22 MAY 90 Matrix: SOIL Received: 22 MAY 90 Prepared: NA Authorized: 23 MAY 90 Analyzed: 31 MAY 90

Note G: Reporting limit raised due to matrix interference.

Note B : Compound is also detected in the blank.

ND = Not detected NA = Not applicable

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Reported By: Steve Bucher

Approved By: Khaja Eazazuddin

Volatiles Library Search (15 Compound TID)



Method 8240

Client Name: Roux Associates Client ID: TSP-SS-01-01,02

007766-0001-SA Lab ID:

Enseco ID: 3020578 Matrix: SOIL Sampled: 22 MAY 90 Authorized: 23 MAY 90 Prepared: NA

Received: 22 MAY 90 Analyzed: 31 MAY 90

| Parameter | Result | Dry Weight Reporting Units Limit |
|------------------------------------|----------|-------------------------------------|
| C-14 H-20 O-2 Isomer | 64 | ug/kg |
| TID Compound 2 TID Compound 3 | ND ND | ug/kg ug/kg |
| TID Compound 4 TID Compound 5 | ND ND | ug/kg ug/kg |
| TID Compound 6 TID Compound 7 | ND ND | ug/kg ug/kg |
| TID Compound 8 | ND | ug/kg |
| TID Compound 10 | ND ND | ug/kg ug/kg |
| TID Compound 11 TID Compound 12 | ND ND | ug/kg ug/kg |
| TID Compound 13 TID Compound 14 | ND ND | ug/kg ug/kg |
| TID Compound 15 | ND | ug/kg |

Percent Moisture is 13%. All results and limits are reported on a dry weight basis.

ND = Not detected NA = Not applicable

Reported By: Steve Bucher

Approved By: Khaja Eazazuddin

0000004

П

Client Name: Roux Associates Client ID: TSP-SS-01-01,02 Lab ID: 007766-0001-SA

Enseco ID: 3020578

Received: 22 MAY 90 Analyzed: 21 JUN 90 Sampled: 22 MAY 90 Prepared: 24 MAY 90 SOIL Matrix: Authorized: 23 MAY 90

| | | Wet wt. | Reporting | |
|---------------------------|--------|----------------|-----------|----|
| Parameter | Result | Units | Limit | |
| Phenol | 1400 | ug/kg | 1600 | JG |
| bis(2-Chloroethyl) ether | - ND | ug/kg | 1600 | |
| 2-Chlorophenol | ND | ug/kg | 1600 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 1600 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 1600 | |
| Benzyl alcohol | ND | ug/kg | 1600 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 1600 | |
| 2-Methylphenol | ND | ug/kg | 1600 | |
| bis(2-Chloroisopropyl) | | | | |
| ether | ND | ug/kg | 1600 | |
| 4-Methylphenol | ND | ug/kg | 1600 | |
| N-Nitroso-di- | | | | |
| n-propylamine | ND | ug/kg | 1600 | |
| Hexach1oroethane | ND | ug/kg | 1600 | |
| Nitrobenzene | ND | ug/kg | 1600 | |
| Isophorone | ND | ug/kg | 1600 | |
| 2-Nitrophenol | ND | ug/kg | 1600 | |
| 2,4-Dimethylphenol | ND | ug/kg | 1600 | |
| Benzoic acid | ND | ug/kg | 8000 | |
| bis(2-Chloroethoxy)- | | -55 | , | |
| methane | ND | ug/kg | 1600 | |
| 2,4-Dichlorophenol | ND | ug/kg | 1600 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg - | 1600 | |
| Naphthalene | 250 | ug/kg | 1600 | J |
| 4-Chloroaniline | ND | ug/kg | 1600 | |
| Hexach1orobutadiene | ND | ug/kg | 1600 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 1600 | |
| 2-Methylnaphthalene | ND | ug/kg | 1600 | |
| Hexachlorocyclopentadiene | ND | ug/kg | 1600 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 1600 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 8000 | • |
| 2-Chloronaphthalene | ND | ug/kg | 1600 | |
| 2-Nitroaniline | ND | ug/kg | 8000 | |
| Dimethyl phthalate | ND | ug/kg | 1600 | |
| Acenaphthylene | ND | ug/kg | 1600 | |
| 3-Nitroaniline | ND | ug/kg | 8000 | |
| Acenaphthene | 180 | ug/kg | 1600 | J |
| 2,4-Dinitrophenol | ND | ug/kg | 8000 | • |
| 4-Nitrophenol | ND | ug/kg | 8000 | |
| Dibenzofuran | ND | ug/kg | 1600 | |
| 2,4-Dinitrotoluene | ND | ug/kg ug/kg | 1600 | |
| 2,4-0 III CI OCOTUCKE | מט | ug/kg | 1000 | |

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Faiza Botros

Approved By: Alicia Duran-Capece

TCL Semivolatile Organics (CONT.)

Method 8270

Client Name: Roux Associates Client ID: TSP-SS-01-01,02

007766-0001-SA Lab ID: Matrix: SOIL

Enseco ID: 3020578 Sampled: 22 MAY 90 Prepared: 24 MAY 90 Received: 22 MAY 90 Analyzed: 21 JUN 90 Authorized: 23 MAY 90

| • | | Wet wt. | Reporting | |
|-----------------------------|--------|-------------|-----------|----|
| Parameter | Result | Units | Limit | |
| 2,6-Dinitrotoluene | ND | ug/kg | 1600 | |
| Diethyl phthalate | ND | ug/kg | 1600 | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 1600 | |
| Fluorene | 190 | ug/kg | 1600 | J |
| 4-Nitroaniline | ND | ug/kg | 8000 | |
| 4,6-Dinitro- | | -33 | | |
| 2-methylphenol | ND | ug/kg | 8000 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 1600 | |
| 4-Bromophenyl | | | | |
| phenyl ether | ND - | ug/kg | 1600 | |
| Hexachlorobenzene | ND | ug/kg | 1600 | |
| Pentachlorophenol | ND | ug/kg | 8000 | |
| Phenanthrene | 2700 | ug/kg | 1600 | |
| Anthracene | 720 | ug/kg | 1600 | J |
| Di-n-butyl phthalate | ND | ug/kg | 1600 | |
| Fluoranthene | 3400 | ug/kg | 1600 | |
| Pyrene | 3200 | ug/kg | 1600 | |
| Butyl benzyl phthalate | ND | ug/kg | 1600 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 3300 | |
| Benzo(a)anthracene | 1300 | ug/kg | 1600 | J |
| bis(2-Ethylhexyl) | | • | | |
| phthalate | 1100 | ug/kg | 1600 | JB |
| Chrysene | 1600 | ug/kg | 1600 | J |
| Di-n-octyl phthalate | ND | ug/kg | 1600 | |
| Benzo(b)fluoranthene | 1700 | ug/kg | 1600 | Ļ |
| Benzo(k)fluoranthene | ND | ug/kg | 1600 | Ļ |
| Benzo(a)pyrene | 1100 | ug/kg | 1600 | j |
| Indeno(1,2,3-cd)pyrene | 720 | ug/kg | 1600 | j |
| Dibenz(a,h)anthracene | 280 | ug/kg | 1600 | j |
| Benzo(g,h,1)perylene | 660 | ug/kg | 1600 | J |
| Nitrobenzene-d5 | 84 | X X X | | |
| 2-Fluorobiphenyl | 106 | % | | |
| Terphenyl-d14 | 96 | % | | |
| Pheno1-d5 | 113 | 7. | | a |
| 2-Fluorophenol | 106 | 7. | | |
| 2,4,6-Tr1bromophenol | 114 | 7. | | |

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Faiza Botros

Approved By: Alicia Duran-Capece

0000075

TCL Semivolatile Organics (CONT.)

Enseco

Method 8270

Client Name: Roux Associates

Client ID: TSP-SS-01-01,02

Enseco ID: 3020578 Sampled: 22 MAY 90 Prepared: 24 MAY 90 007766-0001-SA Lab ID: SOIL Matrix:

Received: 22 MAY 90 Analyzed: 21 JUN 90 Authorized: 23 MAY 90

Note J: Result is detected below the reporting limit or is an estimated concentration.

Note G: Reporting limit raised due to matrix interference.

Note B: Compound is also detected in the blank.

Note L : These components are not separable using this method

and are therefore quantitated together.

Note a: Recovery outside standard QC limits.

ND = Not detected NA = Not applicable

Reported By: Faiza Botros

Approved By: Alicia Duran-Capece

6000076

Method 8270

Client Name: Roux Associates

Client ID: TSP-SS-01-01,02

Authorized: 23 MAY 90

Lab ID: 007766-0001-SA Enseco ID: 30209 Matrix: SOIL Sampled: 22 M

Enseco ID: 3020578
Sampled: 22 MAY 90
Prepared: NA
Received: 22 MAY 90
Analyzed: 21 JUN 90

| Parameter | Result | Dry Weight Reporting Units Limit |
|--------------------|--------|-------------------------------------|
| ranameter | Result | Offics Emile |
| Unknown | 1400 | ug/kg |
| Unknown | 1100 | ug/kg |
| Unknown | 1500 | ug/kg |
| Unknown | 2200 | ug/kg |
| Unknown | 2100 | ug/kg |
| Unknown | 5500 | ug/kg |
| 4-nonyl Phenol | 3300 | ug/kg |
| Unknown | 3400 | ug/kg |
| Unknown acid ester | 4100 | ug/kg |
| Unknown | 3100 | ug/kg |
| Unknown | 870 | ug/kg |
| Unknown | 1300 | ug/kg |
| Unknown | 940 | ug/kg |
| C-15 H-12 Isomer | 1000 | ug/kg |
| Unknown | 3700 | ug/kg |
| Unknown | 1100 | ug/kg |
| Unknown | 2000 | ug/kg |
| Unknown | 2100 | ug/kg |
| Unknown | 2600 | ug/kg |
| Unknown | 2300 | ug/kg |
| Unknown | 780 | ug/kg |
| Unknown | 1100 | ug/kg |
| Unknown | 1000 | ug/kg |
| C-20 H-12 Isomer | 950 | ug/kg |
| Unknown | 910 | ug/kg |

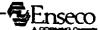
Percent Moisture is 13%. All results and limits are reported on a dry weight basis.

ND = Not detected NA = Not applicable

Reported By: Faiza Botros

Approved By: Lori Ann Quinn

6000077



Method 8080

Client Name: Roux Associates Client ID: TSP-SS-01-01,02

Lab ID: 007766-0001-SA

Matrix: SQIL

Authorized: 23 MAY 90

Enseco ID: 3020578

Sampled: 22 MAY 90

Prepared: 24 MAY 90

Received: 22 MAY 90 Analyzed: 29 JUN 90

| Parameter | Result | Dry Weight Units | Reporting Limit | |
|---------------------|--------|---------------------|--------------------|---|
| Aroclor 1016 | ND | ug/kg | 920 | 1 |
| Aroclor 1221 | ND | ug/kg | 920 | • |
| Aroclor 1232 | ND | ug/kg | 920 | |
| Aroclor 1242 | ND | ug/kg | 920 | |
| Aroclor 1248 | 7600 | ug/kg | 920 | |
| Aroclor 1254 | ND | ug/kg | 1800 | |
| Aroclor 1260 | 8100 | ug/kg | 1800 | |
| Dibutyl chlorendate | NA | * | | |

Note j : All reporting limits raised due to high levels of other analytes.

Percent Moisture is 13%. All results and limits are reported on a dry weight basis.

ND = Not detected NA = Not applicable

Reported By: Martha Sullivan

Approved By: Ben Gulizia

0000165

|1|

1 INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

| 776601 |
|--------|
|--------|

Matrix (soil/water): SOIL

Lab Name: ENSECO EAST Project No.: 7766

Client Sample ID: TSPSS0101

Level (low/med): LOW

Date Received: 05/22/90

% Solids:

87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Ω | M |
|-----------|-----------|---------------|---|----------|----------|
| 7429-90-5 | Aluminum_ | 6400 | = | | <u>P</u> |
| 7440-36-0 | Antimony_ | 10.4 | U | <u>N</u> | <u> </u> |
| 7440-38-2 | Arsenio | 8.9 | _ | 8N | 7 |
| 7440-39-3 | Barium | 60.1 | _ | | P |
| 7440-41-7 | Beryllium | 0.38 | B | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 7150 | _ | | P |
| 7440-47-3 | Chromium | 230 | _ | | P |
| 7440-48-4 | Cobalt | 10.2 | B | | <u> </u> |
| 7440-50-8 | Copper | 76.4 | _ | | P |
| 7439-89-6 | Iron | 22200 | _ | | 2 |
| 7439-92-1 | Lead | 136 | _ | *N | P |
| 7439-95-4 | Magnesium | 2850 | _ | | P |
| 7439-96-5 | Manganese | 461 | _ | | P |
| 7439-97-6 | Mercury | 0.3 | | | CY |
| 7440-02-0 | Niokel | 68.0 | | | P |
| 7440-09-7 | Potassium | 1040 | B | | 2 |
| 7482-49-2 | Selenium_ | 0.46 | V | | 7_ |
| 7440-22-4 | silver | 0.73 | U | | P |
| 7440-23-5 | Sodium | 416 | U | | P |
| 7440-28-0 | Thallium | 0.46 | ᇴ | | 7_ |
| 7440-62-2 | Vanadium_ | 128 | | | P |
| 7440-66-6 | Zino | 147 | I | <u> </u> | 2 |
| - | Cyanide | | ļ | | NR |

|] | Color Before: Color After: | BROWN COLORLESS | Clarity Clarity | | Texture: Artifacts: | MEDIUM |
|---|-------------------------------|--------------------|--------------------|-------------|----------------------------|---------|
|] | Comments: | | | | | · |
| | | | | | | <u></u> |
| | | | | | | |

FORM I - IN

7/87 0000193

J. Sallivar



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

RÉGION II

DEC 1 9 1991

JACOB K. JAVITS FEDERAL BUILDING NEW YORK, NEW YORK 10278

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

NOTICE OF VIOLATION

Mr. Constantino J. Barrial Environmental Engineer Monsanto Chemical Company Pennsylvania Avenue Kearny, New Jersey 07032

Re: Monsanto Chemical Company EPA I.D. No. NJD002444933

Dear Mr. Barrial:

The U.S. Environmental Protection Agency ("EPA") is charged with the responsibility for implementing the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act ("RCRA") of 1976 and the Hazardous and Solid Waste Amendments ("HSWA") of 1984, 42 U.S.C. § 6901 et seg. ("RCRA" or "the Act"). By notification, you informed EPA that you conduct activities at the above-referenced facility involving "hazardous waste" as that term is defined in Section 1004(5) of the Act, 42 U.S.C. § 6904(5), and in N.J.A.C. 7:26-1.4. This Notice of Violation is issued pursuant to Section 3008(a) of the Act, 42 U.S.C. § 6928.

Section 3006(b) of the Act, 42 U.S.C. § 6926 provides that the Administrator of EPA may, if certain criteria are met, authorize a State to operate a hazardous waste program in lieu of the Federal program. The State of New Jersey received final authorization to administer its hazardous waste program in lieu of the Federal program on February 21, 1985. Section 3008(a) of the Act, 42 U.S.C. § 6928 authorizes EPA to enforce the provisions of the authorized State program.

On or about December 4, 1991, a duly authorized representative of EPA conducted an inspection of the Monsanto Chemical Company's facility in Kearny, New Jersey, pursuant to Section 3007 of RCRA, 42 U.S.C. § 6927. During this inspection, the inspector noted that:

a) N.J.A.C. 7:26-9.4(g)6i states that the owner or operator shall maintain the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job on file at the facility.

- b) The inspection revealed that there was no documentation of the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job on file at the facility.
- c) Monsanto's failure to maintain said records at its facility constitutes a violation of N.J.A.C. 7:26-9.4(g)6i.
- a) N.J.A.C. 7:26-9.4(g)6ii states that the owner or operator shall maintain on file at the facility a written job description for each position listed under subparagraph 9.4(g)i. This shall be current at all times. This description may be consistent in its degree of specificity with descriptions of other similar positions in the same company location or bargaining unit, but shall include the requisite skill, education, or other qualifications, and duties of employees assigned to each position.
 - b) The inspection revealed that there was no written job descriptions on file at the facility for each position related to hazardous waste management.
 - c) Monsanto's failure to maintain said records at its facility constitutes a violation of N.J.A.C. 7:26-9.4(g)6ii.
- a) N.J.A.C. 7:26-9.6(f)4 states that the owner or operator shall make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions or discharges at the facility.
 - b) The inspection revealed that Monsanto failed to make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions or discharges at the facility.
 - c) Monsanto's failure to make such arrangements constitutes a violation of N.J.A.C. 7:26-9.6(f)4.
- 4) a) N.J.A.C. 7:26-9.4(g)8 states that semi-annual drills involving all employees and appropriate local authorities shall be conducted to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to N.J.A.C. 7:26-9.7.
 - b) The inspection revealed that Monsanto failed to conduct these semi-annual drills involving all employees and appropriate local authorities.

11

c) Monsanto's failure to make such arrangements constitutes a violation of N.J.A.C. 7:26-9.4(g)8.

Be advised that EPA requires adherence to its regulations. If you have not already done so, you must take immediate remedial action to implement the regulations published in 40 C.F.R. Part 268. You must submit, within thirty (30) days of the receipt of this correspondence, documentation, and a description of the actions you have taken to correct the violations noted above and to implement the regulations published in 40 C.F.R. Part 268.

Failure to comply and submit the documentation requested in this Notice of Violation subjects you and/or your company to the enforcement provisions of section 3008 of RCRA, 42 U.S.C. § 6928.

If you have any questions regarding this matter, please contact Mr. James Sullivan, at (212) 264-6150.

Sincerely Mours,

George C. Meyer, P.E., Chief

Hazardous Waste Compliance Branch

cc: James K. Hamilton, Assistant Director
Office of Enforcement Policy
New Jersey Department of Environmental
Protection and Energy

CN 029 401 East State Street Trenton, New Jersey 08625 W.S. E.P.A.
92 JAN 27 PM 3: 59
HAZ. WASTE COMP. BR.

Monsanto

Monsanto Company Pennsylvania Avenue Kearny, New Jersey 07032 Phone: (201) 589-0350

January 20, 1992

1 in

George C. Meyer, P.E., Chief Hazardous Waste Compliance Branch U.S. Environmental Protection Agency Region II Jacob K. Javits Federal Building New York, N.Y. 10278

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Notice of Violation
Monsanto Company

EPA I.D. No. NJD002444933

Dear Mr. Meyer:

Monsanto Company received the subject Notice of Violation (NOV) on December 23, 1991, which was the result of an inspection conducted by EPA on December 4, 1991 at Monsanto's Kearny, New Jersey plant. At the time of the inspection information relevant to the alleged violations could not or was not provided to EPA's representative. This response provides that information, which demonstrates that Monsanto had not violated the cited sections of the New Jersey Administrative Code.

- 1. The first allegation in the NOV is that Monsanto violated N.J.C. 7:26-9.4(g)6i, because of the failure to maintain a written job title and name of employee filling each hazardous waste management position at the facility. This information was at the facility during the December 4, 1991, inspection, but it was not in my office. The information was kept in a plant procedure manual and in a correspondence file. This information has previously been provided to the New Jersey Department of Environmental Protection (NJDEP) on December 11, 1989. A copy of this information that was provided to NJDEP and that was at the facility on December 4, 1991, is enclosed as Enclosure 1. The information in this enclosure is accurate and up to date.
- 2. The second allegation in the NOV is that Monsanto violated N.J.A.C. 7:26-9.4 (g) 6ii, because of the failure to maintain a job description of the employees assigned to hazardous waste management positions at the plant. This information was at the plant during the inspection and is part of the information referenced above as Enclosure 1. The job descriptions in the enclosure remain accurate.

- 3. The third allegation in the NOV is that Monsanto violated N.J.A.C. 7:26-9.6(f)4 by failing to have made arrangements with local hospitals as required by the regulation. Once again, Monsanto had made the necessary arrangements prior to the December 4, 1991, inspection, but, did not provide a demonstration of those arrangements to the inspector on that date. Information about the hazardous waste handled at the plant and the types of injuries that could result from an accident involving those materials was most recently provided to the West Hudson Hospital, Bergen and Davis Avenues, Kearny, New Jersey, 07032. This is the hospital which would be used for treatment of injuries should they occur as a result of an incident at the plant. These materials remain in the possession of the hospital. This can be confirmed with Mr. Paul Paracka, Hospital Vice President, at (201) 955-7015.
- 4. The fourth and final allegation in the NOV alleged that Monsanto failed to conduct semi-annual drills involving all employees and appropriate local authorities as required by N.J.A.C. 7:26-9.4(g)8. While two designated hazardous waste emergency drills were not conducted during 1991, the plant conducts in house fire and safety training throughout the year, which utilizes similar procedures that would be called for in the event of an actual hazardous waste emergency. The plant sirens and emergency communication systems are tested weekly. The Kearny plant employs approximately 20 people and so the task of providing adequate emergency training is covered as part of monthly safety and refresher training. A little different task that might be used to provide the same training to employees at a chemical plant that employs hundreds of people.

In addition there were two occasions during 1991 when the plant's emergency procedures were invoked, and that involved alerting employees and local response authorities to address actual events. We discussed these events, which will be described below, with the EPA representative and our opinion that these events operated as the equivalent of semi-annual drills. These episodes involved implementation of the emergency procedures set forth in N.J.A.C. 7:26-9.7(k) (1).

Incident 1: April 17, 1991 illness of employee

The Plant Guard was contacted. He in turn notified plant personnel by radio of the emergency. The Emergency Coordinator responded to the scene, an ambulance was summoned at the Coordinator's direction, the ill employee was transported to the hospital, and an all clear was sounded.

Incident 2: September 19, 1991 finding a corpse at plant shoreline.

The Plant Guard was contacted and announced the incident by radio. The Emergency Coordinator responded to the scene. Police were summoned by the Guard at the direction of the Emergency Coordinator. The Police in turn determined the need for and summoned the Fire Department and other City officials. The corpse was retrieved and removed, and an all clear was sounded. In all 12 vehicles from various branches of the local authorities responded to this incident.

The plant, which is in the process of closing, will either conduct an emergency drill or obtain an exemption from this requirement as is provided for by New Jersey's hazardous waste regulations.

Please let me know if you require any additional information regarding these matters.

Sincerely,

Constantino J. Barrial Environmental Engineer

Enclosure

cc: Mr. James Sullivan - U.S. EPA Region II Mr. James K. Hamilton, Assistant Director, Office of Enforcement Policy, New Jersey Department of Environmental Protection and Energy, CN 029, 401 East State Street, Trenton, N.J. 08625 NAME:

Celso A. Balan

EDUCATION:

Chemical Engineer

JOB TITLE:

Technical Service Department Supervisor

JOB DESCRIPTION:

. Supervision of Quality Control and Quality Assurance of manufacturing and bulk terminal operations.

- . Supervision of Safety, Environmental and Health Programs to comply with Federal, State and Local regulation.
- . Plant Capital and Cost Improvement Programs.
- . Plant Process and Project Engineering.

Enclosing 1

NAME: Carlos B n JOB fitte: Plant Guard

JOB DESCRIPTION:

Overall responsibility for plant security and running the steam boilers at maximum efficiency.

GUARD:

- .Maintain security integrity of plant 24 hours a day, with special emphasis on off-shifts and weekends.
- .Relay messages as back-up switchboard operator.
- .Handle emergency calls from Hazmat, Merit, etc. and effect procedures to get proper response.

WEIGHMASTER:

- .Have weighmaster seal.
- .Weigh all inbound and outbound traffic (all weights certified).
- .Process all traffic forms and paperwork.
- .Maintain raw material, contractor and visitors logs.
- .Monitor order machine.
- .Separate order forms.
- .Monitor the normal R.R. drill.

BOILER OPERATOR:

Minimum requirement - Black Seal All operators have Blue Seal.

- .Operate boilers at maximum efficiency.
- .This includes maintaining water softeners, and chemical testing of boiler water.
- .Maintaining adequate inventory of boiler chemicals.
- .Do running mechanical repairs within scope of ability and knowledge.
- .Take daily meter readings.
- .Maintain the aesthetic standard of boiler room by routinely updating the color scheme.

ADDITIONAL:

.Handles all routine first aid, up to and including, application of oxygen inhalator.

WASTE OPERATIONS:

- .Have hazardous and non-hazardous inbound and outbound truck weighed.
- .Handle and distribute waste forms according to procedure.

NAME: JOB TITLE: Plant Guard Donald ordon

JOB DESCRIPTION:

Overall responsibility for plant security and running the steam boilers at maximum efficiency.

GUARD:

- .Maintain security integrity of plant 24 hours a day, with special emphasis on off-shifts and weekends.
- .Relay messages as back-up switchboard operator.
- .Handle emergency calls from Hazmat, Merit, etc. and effect procedures to get proper response.

WEIGHMASTER:

- .Have weighmaster seal.
- .Weigh all inbound and outbound traffic (all weights certified).
- .Process all traffic forms and paperwork.
- .Maintain raw material, contractor and visitors logs.
- .Monitor order machine.
- .Separate order forms.
- .Monitor the normal R.R. drill.

BOILER OPERATOR:

Minimum requirement - Black Seal All operators have Blue Seal.

- .Operate boilers at maximum efficiency.
- .This includes maintaining water softeners, and chemical testing of boiler water.
- .Maintaining adequate inventory of boiler chemicals.
 .Do running mechanical repairs within scope of ability and knowledge.
- .Take daily meter readings.
- .Maintain the aesthetic standard of boiler room by routinely updating the color scheme.

ADDITIONAL:

.Handles all routine first aid, up to and including, application of oxygen inhalator.

WASTE OPERATIONS:

- .Have hazardous and non-hazardous inbound and outbound truck weighed.
- .Handle and distribute waste forms according to procedure.

SUB TITLE: Plant Guard NAME: Stanle Zera

JOB DESCRIPTION:

Overall responsibility for plant security and running the steam boilers at maximum efficiency.

GUARD:

- .Maintain security integrity of plant 24 hours a day, with special emphasis on off-shifts and weekends.
- .Relay messages as back-up switchboard operator.
- .Handle emergency calls from Hazmat, Merit, etc. and effect procedures to get proper response.

WEIGHMASTER:

- .Have weighmaster seal.
- .Weigh all inbound and outbound traffic (all weights certified).
- .Process all traffic forms and paperwork.
- .Maintain raw material, contractor and visitors logs.
- .Monitor order machine.
- .Separate order forms.
- .Monitor the normal R.R. drill.

BOILER OPERATOR:

Minimum requirement - Black Seal All operators have Blue Seal.

- .Operate boilers at maximum efficiency.
- .This includes maintaining water softeners, and chemical testing of boiler water.
- .Maintaining adequate inventory of boiler chemicals.
 .Do running mechanical repairs within scope of ability and knowledge.
- .Take daily meter readings.
- .Maintain the aesthetic standard of boiler room by routinely updating the color scheme.

ADDITIONAL:

.Handles all routine first aid, up to and including, application of oxygen inhalator.

WASTE OPERATIONS:

- .Have hazardous and non-hazardous inbound and outbound truck weighed.
- .Handle and distribute waste forms according to procedure.

NAME: John I hon JOB TITLE: Sterox Operator

JOB CLASSIFICATION: "A" Operator

JOB DESCRIPTION:

Operation of the Sterox manufacturing process as per the standard operating procedures, plant safety & environmental guidelines, and plant housekeeping practices. The duties and responsibilities include the following:

- 3.1 Storage and transfer of raw materials, process chemicals and nitrogen, as well as the proper use and control of utilities such as steam, water and electricity.
- 3.2 Conduct and control the chemical processes of ethoxylation and neutralization as well as the refining steps of drying and filtration of the ethoxylated products (Steroxes).
- 3.3 Transfer and storage of the Steroxes from the manufacturing processes to storage.
- 3.4 Sampling and production analysis during the ethoxylation, neutralization, and other refining steps for process quality control or as required by the Quality Control Lab.
- 3.5 Record process and quality control information on batch log sheets. Record other activities on log book to be reviewed by department supervision on a daily basis.
- 3.6 Cleaning of process equipment when required to avoid cross-contamination, and before shutdown periods.

Other responsibilities include:

- 3.7 Assist the Ethylene Oxide Bulk Unloader during unloading of E.o. tank cars to make sure the operation is carried out within safety and operation requirements.
- 3.8 Assist Maintenance, Engineering, outside contractors, in the execution of specific tasks, as outlined in department guidelines, and ensure all departmental safety rules are followed accordingly.
- 3.9 Perform preventive maintenance procedures as required by TCPA.
- 4.0 Review and sign all maintenance work order requests before start of work.
- 4.1 Must be able to start or stop the E.O. unloading operation.
- 4.2 Perform the following solid waste operations:
 - a) Drain Alkylphenol catalyst from reactor into roll off container.
 - b) Transfer catalyst from roll off container into lined drums. Have drums labeled, sealed, and properly market.
 - c) Move drums to waste area and storage them in hazardous marked area.

NAME:

Constantino J. Barrial

EDUCATION:

Chemical Engineer

JOB TITLE:

Environmental Engineer

JOB DESCRIPTION:

. Ensure plant compliance with air, water, land and waste regulations.

- . Ensure Sterox Plant compliance with Toxic Catastrophe Prevention Act and SARA regulations.
- . Ensure plant compliance and clean up activities according to DEP Administrative Consent Order.

DIVISIC OF HAZARDOUS WASTE MANAGE HAZARLOUS WASTE INSPECTION REPORT

DWM-029

GENERATOR INSPECTION REPORT

| FACILITY INFORMATION |
|--|
| FACILITY NAME: MONSANTO CO. |
| FILE NUMBER: |
| VHT FACILITY FILE NUMBER: |
| PERMIT #: |
| REGION: MFO |
| INSPECTION DATE: December 4, 1991 |
| INCIDENT/CASE NUMBER: |
| INSPECTION TYPE: RCRA CEI |
| RESPONSIBLE AGENCY CODE: |
| INSPECTOR'S NAME: Jim Sullivan |
| INSPECTOR'S AGENCY: USEPA |
| INSPECTOR'S BUREAU: 2AWM- HWC |
| EPA ID NUMBER: NJD 002 444 933 |
| ADDRESS: Pennsylvania Avenue |
| KEARRY NJ 07032 |
| LOT: 49,50,19 BLOCK: 284, 289 |
| COUNTY: Hudson |
| FACILITY PERSONNEL: CONSTANTINO J. BATTIAL |
| TELEPHONE #: 201-589-0350 |
| OTHER STATE EPA PERSONNEL : BANT George |
| |
| REPORT PREPARED BY Sullivan |
| REVIEWED BY: |
| DATE OF REVIEW: |

REVISION: 3 01/88

SUMMARY OF INSPECTION FINDINGS

On December 4, 1991 a Compliance Evaluation Inspection ("CEI") was conducted at the Monsanto Chemical Company located in Kearny, New Jersey. Monsanto was selected as part of an investigation of New Jersey "C" code generators in conjunction with the Region's Toxicity Characteristic ("TC") Initiative. Upon arrival we were informed that this facility is currently preparing to cease operations. Production is scheduled to be discontinued by December 20, 1991, and distribution will cease shortly thereafter.

DESCRIPTION OF FACILITY OPERATIONS:

At the present time, only the facility's Alkyl Phenol Plant is in operation. This plant produces two alkyl phenol products via the following reactions:

- 1) phenol + nonene => nonyl-phenol
- 2) pheno1 + tetrapropylene => dodecylpheno1

These alkyl phenol products are used as industrial detergents in gasoline and fuel additives.

The facility also acts as a distribution center for other Monsanto products, however this activity will be transferred to other Monsanto terminals.

The only hazardous wastes generated on a consistent basis are spent catalyst (C377), a synthetic resin impregnated with phenol, and spent distillation ends (D001). These wastestreams are incinerated at Rollins incinerators.

RECORD REVIEW

The following deficiencies were identified during an examination of Monsanto's records:

- The job title for each position at the facility related to hazardous waste management and the name of the employee filling each job was not on file. This is a violation of N.J.A.C. 7:26-9.4(g)6i.
- A written job description for each position at the facility related to hazardous waste management was not on file. This is a violation of N.J.A.C. 7:26-9.4(g)6ii.
- The facility failed to make arrangements to familiarize the local hospitals with the properties of hazardous waste handled at the facility and the types of injuries and

illness which could result from fires, explosions, or discharges at the facility. This is a violation of N.J.A.C. 7:26-9.6(f)4.

- The facility failed to conduct semi-annual drills involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures developed pursuant to N.J.A.C. 7:26-9.7. The facility's last drill was conducted on April 6, 1990. This is a violation of N.J.A.C. 7:26-9.4(g)8.

PLANT TOUR

A plant tour was conducted and no hazardous waste was found to be accumulated on-site.

C - CODE ISSUE

The material shipped off-site as a New Jersey C-code waste was not a federally regulated hazardous waste.

WASTE MINIMIZATION

The facility will cease operations during December of 1990, therefore due to the limited hazardous waste generation, waste minimization is no longer a high priority.

GENERATOR CHECKLIST

| GENERAL | 7:26 | | | | |
|---------|------|--|----------|-------------|---------|
| 7.4(a)l | | Does the Generator have an EPA ID number? | <u>×</u> | | |
| | | Does the generator generate/store >100 of hazardous waste (lkg acutely) or onl >1001 gal of waste oil in any given mon (except x725 - 100 kg rule applies) | У | | |
| | | If no, does the generator wish to delist? If the generator wishes to delist, do a delisting inspection. | | | |
| 12.1(a) | | Is the site <u>ACTING</u> as a TSDF by: (no Part A or B) | | | |
| | | Treatment of a hazardous waste? | | \geq | |
| | | Storage of hazardous waste in underground tanks? | | <u>×</u> | · . |
| | | Hazardous wastes placed in piles or surface impoundments? | | <u>×</u> | |
| | - | Disposal of hazardous waste on sit (ie landfill, injection well)? | e | \angle | |
| | | Accumulation of hazardous waste for more than 90 days? | | X | |
| | | COMMENT: | | | |
| | | | | | |
| 9.3(a)l | | Is site acting as a generator but accumulating waste (containers or approved tanks) over 90 days? | | | <u></u> |
| | | CDMMENT: | | | |

SOLID WASTE DETERMINATION

| which These or con can no These (i.e. air po discar | meet the definition of a "solid waste". would include any solid, liquid, semi-sol tained gaseous material which has served longer serve its <u>original</u> intended use. materials include spent material, sludge wastewater treatment sludge or material llution control equipment), by-products, ded commercial chemical products, scrap sidues? | or s from | | |
|---|---|-----------------|-------------|--|
| Is material: 1. Discard | ed or intended to be discarded | <u>×</u> . | | |
| or biole | ated, stored or physically, chemically ogically treated prior to, or in lieu ng discarded | | | <u> </u> |
| 3. Burned | for energy recovery | | | <u>\ \ </u> |
| or conta | to the land or placed on land ained in a product that is applied or on the land in a manner constituting l | | | |
| 5. Recycle | d? | | | <u> </u> |
| under to 7:26-1.4 | e generator process any material oll agreement pursuant to NJAC 4 (such material is classified as a waste"). | | <u>\</u> | |
| HAZARDOUS WASTE | DETERMINATION | | | - |
| 8.5(a) | Did the generator determine if its "solid waste" is hazardous? | <u>×</u> | | |
| 8.5(b) | Is the waste listed (or a mixture)? If no then: | <u>×</u> - | | |
| 8.5(b)(1) | Did the generator determine the hazardous characteristics based upon testing of the waste in accordance with 8.9-8.12? | <u> </u> | | |
| | Based on characteristics, is the waste hazardous? | | | |
| 8.5(b)(2) | Did the generator determine the hazardous characteristics based upon knowledge of materials or process? | X | | |
| | Based on knowledge, is the waste hazardous? | <u>×</u> _ | | |

| 8.5(c) | Department requested the generator to submit a plan analyzing for | Classification to 377 Necesul |
|------------|--|----------------------------------|
| | Has the generator conducted the approved plan and submitted the results? | × |
| | Based on constituents, is the waste hazardous? | <u>×</u> |
| 8.5(d) | Were test results, waste analysis, or other determinations made in accordance with this section kept three years (in operating log) from the date that the waste was last sent to an on-site or off-site TSD? | <u> </u> |
| MANIFESTS | | |
| 7.4(a)4 | Does each manifest have the following information? Please obtain a copy of the incomplete manifests. (List those manifests that are deficient on pg 9). | |
| 7.4(a)4i | The generator's name, mailing address (&site address if different) and phone number. | <u> </u> |
| 7.4(a)4ii | The generator's EPA ID number | |
| 7.4(a)4iii | The transporter(s) name, phone number and NJ registration and decal #. | <u>×</u> |
| 7.4(a)4iv | The transporter(s) EPA ID number | |
| 7.4(a)4v | The name, address and phone number of the designated TSD facility. | * |
| 7.4(a)4vi | The TSD's EPA ID number. | <u> </u> |
| 7.4(a)4vii | The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same? Has the generator properly classifie (RCRA) each waste on the manifests? Proper USDOT shipping name, hazard class, ID #, quantity, waste code? | d <u>×</u> |



Has the generator received signed copies (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?

7.4(h)1

| | • | | .,, | ••, |
|--|---|---------|--------|-----|
| 7.4(h)l | If not: Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at (609) 292-8341 to inform the NJDEP of the situation? | | | |
| 7.4(h)2 | Have exception reports been submitted to the Department covering any of these shipments made more than 45 days ago? | | | 4 ـ |
| | $(\underline{\times})$ YES $(\underline{})$ NO ests in compliance $\underline{}$ 1990 $\underline{}$ 1990 | 1 F. | 50 | |
| Number of manif | ests not in compliance | | | |
| List manifest docum note each deficienc | ent numbers of those manifests not in c | ompliar | nce ar | ıd |

Manifest Document Number

Revised 10/90 JM

Discrepancy

Revised 10/90 JM

9.4 HAZARDOUS WASTES ON SITE

Reminder: 17E - Bung Type Drum 17H - Open Top Drum

WASTE

WASTE CODE

TANK/CONTAINER

SIZE/TYPE

QUANTITY

SHORT TERM ACCUMULATION STANDARDS FOR GENERATORS WHO ACCUMULATE WASTE IN CONTAINERS AND TANKS FOR 90 DAYS OR LESS:

| CONTAINERS | If the answer to any container questions is no, describe the problem (include No Container number of containers & waste involved). |
|------------|--|
| 9.4(d)li | number of containers & waste involved). Currently Is hazardous wastes stored in adequate containers? Comments: Stored on-Sife |
| 9.4(d)3 | Are all containers compatible with the waste being stored in them? Comments: |
| 9.4(d)4i | Except during filling and emptying, are all containers kept securely closed so that there is no escape of Hazardous Waste or its vapors? Comments: |
| 9.4(d)4iii | Do the containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing and/or leaking? Comments: |
| 9.4(d)4iv | Are containerized hazardous wastes segregated in storage by waste type? (type interpreted as DOT compatibility) Comments: |
| 9.4(d)4v | Is every container arranged so that its identification labels or markings are visible? Comments: |
| 9.4(d)5 | Is the container storage area inspected daily for leaks and deterioration? |
| 9.4(d)6 | Are containers holding ignitable and reactive wastes located at least 50 feet (15 meters) from the facility's property line? |
| 9.6(d) | Did the owner operator maintain access to communication or alarm system? |

| | 9 | | | • |
|-------------------|---|-------------|-------|------------|
| Revised 10/90 JM | | YES | NO | N/A |
| 9.6(e) | Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment? (Policy is 18", 30" double sta Comments: | ck) | · —— | <u>×</u> |
| 7.2(a) | Oid the owner/operator conspicuously label appropriate manifest number on all hazardous waste containers that are intended for shipment? Comments: | | | |
| 9.3(a)3 | Is each container clearly dated with each period of accumulation (when accumulation starts) so as to be visible for inspection? | | _ | <u> </u> |
| | and clearly marked with words "Hazardous Waste"? Comments: | | | |
| 7.2(b) | Did the owner/operator insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations? (49CFR 171, 179) | - | | X |
| SATELLITE ACCUMUL | ATION AREAS | | | |
| | cules apply for "active drums" that are bei cumulate hazardous waste. | ng cui | rentl | . y |
| 9.3(d)1 | Is the quantity of waste in each accumulation area less than 55 gallons (less than one quart if acutely hazardous |)? | | \ |
| three days. The t | ON: can be utilized until the original drum i otal storage capacity for any satellite ac llO gallons for each waste stream. | | | |
| | addition to container requirements, are the tainers managed in the following manner: | е | | |

(a) meet the stds of 7.2 (Container Requirements)?

(b) managed in accordance with 9.4(d)2,3&4i (proper container storage)

| 9.3(d)3 | Is the accumulation area at or near a point of generation where wastes initially accumulate in a process? AND, is the area under the control of the | · <u>_</u> |
|----------|--|---------------|
| | operator of the process? | — |
| 9.3(d)4 | Are containers marked "Hazardous Waste"? \geq | \subseteq |
| 9.3(d)5 | Are all containers marked with the date the container(s) reached the volume specified, 55 gal. or l qt. AND, | |
| 9.3(d)6 | after reaching the volume indicated in (d)l above is the container moved within three days to one of the following?: | _ |
| | i. A less than 90 day accumulation storage areaii. A on-site authorized facilityiii. A off-site authorized commercial facility | アスオ |
| Describe | satellite accumulation areas on site: | |
| | | |
| PILES | | |
| 9.2(b)4 | Is the site acting as a generator but storing hazardous waste in piles? | |
| Describe | HW accumulated in piles on site: | |
| | | |
| TANKS (u | nderground) | |
| 9.2(b)1 | Has there been installation or use of new underground HW tanks (except waste oil under 1001 gal)? | |
| 9.2(b)2 | Conversion of underground tanks for use | |
| 9.2(b)3 | Use of existing HW underground tanks without proper monitoring (7:14A-6) OR not within specified lifetime of tank OR without proper management [10.5(e)6]? | |

TANKS (above ground, less than 90 day storage)

| | | |
|-------------|--|----------|
| 9.3(b) | Does the generator accumulate hazardous waste on-site in an above ground tank? If yes: Does the generator have written approval from the Department to store hazardous waste(s) in this tank(s) for ninety days or less? | |
| 9.3(b)5 | Is each tank(s) rendered empty (1% or less remaining) every 90 days or less? Explain how this is determined eg logs, manifests: | <u> </u> |
| 9.3(b)6 | Are all wastes removed from the tank(s) shipped off-site to an authorized facility or placed in an on-site, authorized facility? | |
| 9.3(b)8 | If part of the tank is below grade, is it constructed to allow visual inspection of the tank, comparable to a totally above-ground tank and is secondary containment provided for the below grade part? | <u> </u> |
| 9.3(b)9 | Tanks labeled/marked "Hazardous Waste" | |
| 10.5(c)1 | Are materials which are incompatible with the material of construction of the tank(s) placed in the tank(s)? | |
| 10.5(c)2i | Does the generator use appropriate controls and practices to prevent overfilling? | <u> </u> |
| 10.5(c)2ii | For uncovered tanks, is there sufficient (two feet or acceptable documentation) freeboard to prevent overtopping by wave or wind action or by precipitation? | <u> </u> |
| 9.3(b)3 | Does each tank(s) or storage tank area have secondary containment? | <u> </u> |
| 10.5(d)1 | Is the containment system capable of collecting and holding spills, leaks, and precipitation? | <u> </u> |
| 10.5(d)li | Is the base underlying the tank(s) free from cracks, gaps, and sufficiently impervious to contain leaks, spills, and accumulated rainfall until the collected material is detected and removed? | <u> </u> |

| | · | |
|--------------------|---|----------|
| 10.5(d)lii | Does the containment system consist of material compatible with the wastes being stored? | <u>×</u> |
| 10.5(d)liii | Is the containment system sloped or otherwise designed to efficiently drain and remove liquids resulting from leaks, spills and precipitation? | |
| 10.5(d)liii | Is the tank protected from the contact with accumulated liquids? | X |
| 10.5(d)liv | Does the containment system have sufficient capacity to contain ten percent of the volume of all tanks or the volume of the largest tanks whichever is greater? | · · · × |
| 10.5(d)2 | Is run-on into the containment area prevented? | X |
| 10.5(d)3 | Is precipitation removed from the pump or collection area in a timely manner to prevent blockage or overflow of the collection system? | <u>×</u> |
| 10.5(d)4 | Is spilled or leaked waste removed from the pump or collection area daily? | <u>×</u> |
| 10.5(d)4i | If the collected material is hazardous waste under NJAC 7:26-8, it is managed as a hazardous waste in accordance with all applicable requirements of this chapter? | <u> </u> |
| PERSONNEL TRAINING | • | |
| 9.4(g)3 | Is the training program designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emersystem including 9.4(g)3ithrough 3vii? | rgency |
| 9.4(g)4 | Have facility personnel involved with hazardous waste management successfully completed a program of classroom instruction or on-the-job training within six months of the date of their employment or assignment to the facility or to a new position at the facility? | × |

| - KEN13CU 10770 ON | | YES | NO | N/A |
|--------------------|---|---------------------------|--------------|----------------------|
| 9.6(b)4 9.6(c) | Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray system? Are all the above emergency equipment tested and maintained? | X | | |
| 9.6(f) | Has the facility made the following arrangements (documented), as appropriat for the type waste handled on site: | е | | · |
| 9.6(f)l | Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled and associated hazardous places where facility personnel would normally be working, entrances and roads inside facility and possible evacuation routes. | X | *** | · . |
| 9.6(f)2 | Where more than one police and fire department might respond to an emergency is there an agreement designating primar emergency authority to a specific police and fire department, and agreements with others to provide support to the primary emergency authority? | ý | | <u>×</u> |
| 9.6(f)3 | Agreements with emergency response contractors, and equipment supplier? | | | λ |
| 9.6(f)4 | Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illness which could result from fires, explosion or discharges at the facility? | s, | _ > | <u> </u> |
| 9.6(f)5 | Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually? | P | y on er x | uce. |
| 9.6(f)6 | If authorities identified in (f) l through 5, above decline to enter into such arrangements, has the owner, or operator documented this refusal in the operating record. | | | $\underline{\times}$ |
| 9.4(g)8 | Are the semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7? | last Fire Occu Y | Dep | t on |

SPCC: Storage of any kind of oil and most oil products including gasoline and fuel oils

+42000 gal underground storage

→1320 gal multiple tanks

If →660 gal single tank

substances

If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?

the X

9.7(e)

Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?

9.7(f)

Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates?

9.7(g)

Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems [internal and external] and decontamination equipment), where this equipment is required? Is the list up-to-date? In addition, does the plan include the location and physical description of each item on the list, and a brief outline of its capabilities?

9.7(h)

Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary route could be blocked by releases of hazardous waste or fires?)

9.7(i)

Is the copy of the contingency plan and all revisions to the plan:

1. Maintained at the facility

X____

 Has the contingency plan been submitted to local authorities (police, fire departments, emergency response teams?)

X ____

| Revised 10/90 JM | | YES | NO | N/A |
|------------------|--|-----|------------|----------|
| 9.7(k) | Is there an employee on site or on call at all times with the responsibility of coordinating, all emergency response measures? | × | | |
| 9.2(a)2 | Is hazardous waste handled in a manner which causes (or may or has caused) a discharge of a hazardous waste onto the land, waters or air of the State? | | <u>×</u> . | |
| 58:10-23.11(c) | Is there a discharge of a hazardous substance (under Spill Act)? | | | \times |
| | • | | | / |

SUMMARY OF VIOLATIONS:

When making a referral, list each citation and the basis for issuing the violation (add additional pages as needed):

58:10-23.11(e) Was it reported to the Department?

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

| I. General Information | | | | | - |
|---------------------------------|----------------|-------------|--------------|--------------|----------------|
| Facility: | · <u>/</u> | MONSAN | ,to (| _0 | |
| U.S. EPA ID No.: | | | 2444 | | |
| Street: | | Penns | JUANIA | Avenu | ie_ |
| City: | K | EATNY | Stat | c: <u> </u> | 07032 |
| Telephone: | | 201- | 589-0 | 320 | |
| • | | | | · | • |
| Inspection Date: | 12141 | 9/ Time: | (a | m/pm) | |
| Weather Conditions: | | -old, s | Now Flu | rries | |
| | Name | | Agency/Title | <u>Telep</u> | hone |
| Inspectors: | | | w 2A | | |
| | | | ge 2A | | |
| Facility Representativ | بمسر | | ino I. | · | |
| , ., | | | Engine | • . | |
| Con Annondia B to do | | | | | |
| See Appendix B to de | | _ | _ | _ | |
| | Generate | Transport | <u>Treat</u> | <u>Store</u> | <u>Dispose</u> |
| F001-F005 Solvents | | | | | |
| F020-F023 and F026-F028 | | | | | |
| California List* | | | | | |
| First Third [40 CFR 268.10] | | | | | |
| Second Third [40 CFR 268.11] | - , | | | | |
| Third Third [40 CFR 268.12] | X | | | | |
| * See Appendix A | | | | | |
| | | | | | |

Revised 09/90

INSPECTION SUMMARY

| Processes 1 | hat Generate | םת ז | Warter |
|-------------|--------------|------|--------|

LDR Waste Management:

Summary:

Signature:

Revised 09/90

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

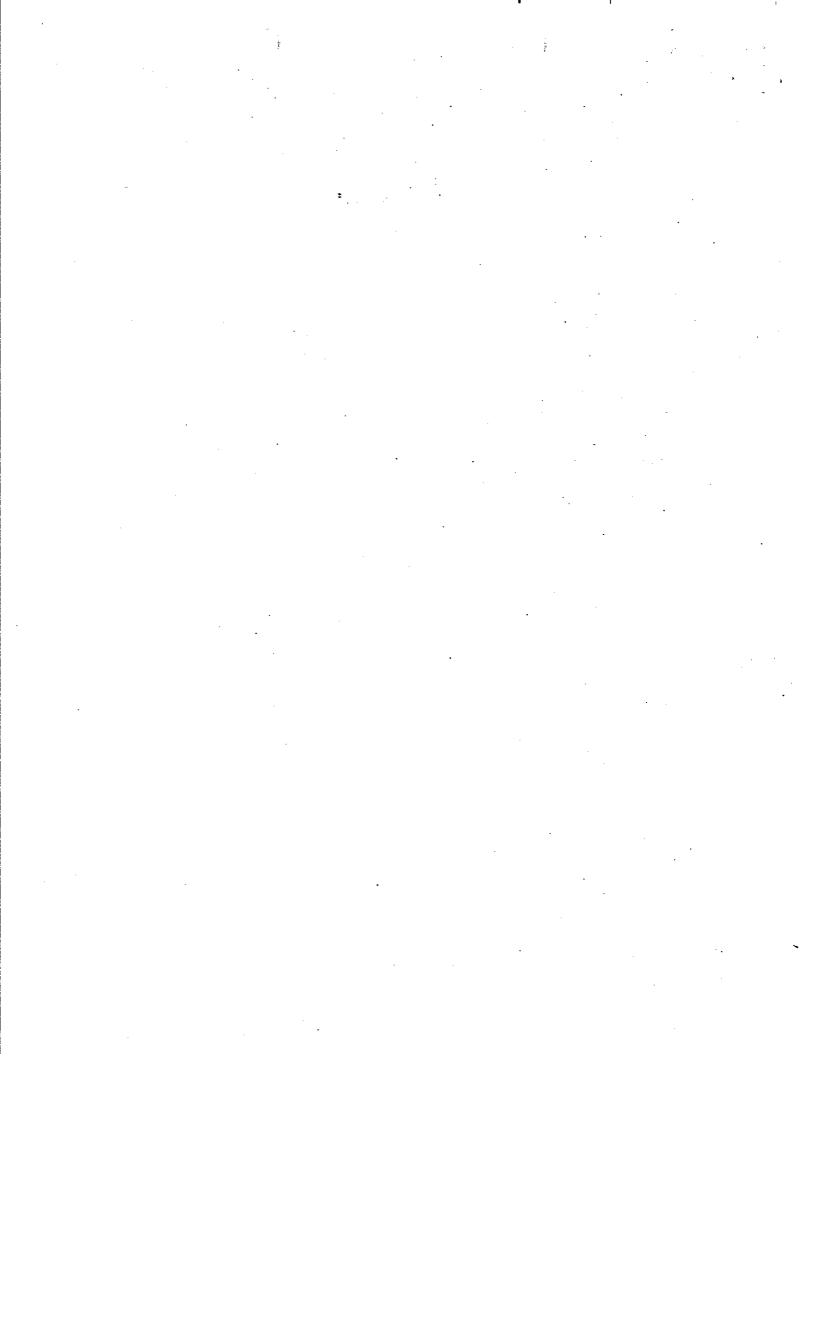
II. WASTE IDENTIFICATION

| 1. | Foo 5 |
|------------------------------------|--|
| 2. | F020-F023 and F026-F028 dioxin-containing wastes: |
| 3. | California List Wastes (See Appendix A): |
| 4. | First Third Wastes [40 CFR 268.10]: |
| 5. | Second Third Wastes [40 CFR 268.11]: |
| 5. | Third Third Wastes [40 CFR 268.12]**: |
| chara the t by 03 waste even chara | te: Effective 09/25/90, large quantity generators and ISDs are required to use the toxicity octeristic leaching procedure (TCLP) instead of the extraction procedure (EP) for determining exicity characteristic (TC). Small quantity generators must comply with this new requirement 1/29/91. Wastes which exhibit TC, but do not exhibit EP, will be considered *newly identified is. They will be regulated under 40 CFR Part 268 only after they are evaluated by U.S. EPA, if they are characteristic for a constituent previously covered under the EP toxicity interistic [55 FR 22531]. |
| Was: | te Code Determination |
| Was | |
| Was | te Code Determination Have all wastes been correctly identified for purposes of compliance with |
| Was | Have all wastes been correctly identified for purposes of compliance with 40 CFR Part 268?* |
| Was | te Code Determination Have all wastes been correctly identified for purposes of compliance with 40 CFR Part 268?* Yes No |
| Was: | Have all wastes been correctly identified for purposes of compliance with 40 CFR Part 268?* Yes No If no, list below: |
| | Have all wastes been correctly identified for purposes of compliance with 40 CFR Part 268?* Yes No If no, list below: |

B.

| | 2. | | | haracteristic waste code been assigned, where a listed waste 40 CFR 268.9(a)] |
|----|------|---|--|--|
| | | Yes | N o | NA |
| | | Comments_ | | |
| | 3. | Has multi-so | ource leachate | been assigned the F039 waste code?* [40 CFR 261.31] |
| | | Yes | No | NA 🔀 |
| | | *Leachate der individual wa | ived exclusively ste codes. | y from F020-F023 and/or F026-F028 dioxin wastes retains the |
| | | If yes, was si 22623] | ngle-source le | achate combined to form multi-source leachate? [55 FR |
| | | Yes | No | • |
| | | Comments_ | | |
| C. | Does | the facility ha | ndle the follow | ring wastes (national capacity variances)? |
| | 1. | or a RCRA | corrective acti | oil and debris resulting from a CERCLA response action on (expires - 11/08/90). [40 CFR 268.30(c)] |
| | | Yes | No \times | List |
| | 2. | | | and debris resulting from a CERCLA response action or a expires - 11/08/90). [40 CFR 268.31(b)] |
| | | Yes | No <u>X</u> | List |
| | 3. | | | d soil and debris resulting from a CERCLA response ive action (expires - 11/08/90). [40 CFR 268.32(d)(2)] |
| | | Yes | No <u>↓</u> | List |
| | 4. | K048-K052 (b)] | petroleum was | ites (nonwastewaters; expires - 11/08/90). [40 CFR 268.35 |
| | | Yes | No <u>X</u> | List |
| | 5. | incineration K014, K023, K113, K114, P094, P097, | set in the Seco K027, K028, I K115, K116, I P109, P111, U | ed with wastes that had treatment standards based on ond Third rule - F010, F024, K009, K010, K011, K013, K029, K038, K039, K040, K043, K093, K094, K095, K096, P039, P040, P041, P043, P044, P062, P071, P085, P089, 028, U058, U069, U087, U088, U102, U107, U190, U221, 128/91). [40 CFR 268.34(d)] |
| | | Yes | No | List |
| | | | | • |

| 0. | Third Third | d rule based on | incineration, mercury retorting, or vitrification. See 08/92). [40 CFR 268.35(e)] | | | | |
|-----|--|---|--|--|--|--|--|
| | Yes | No $	imes$ | List | | | | |
| 7. | The follow P012, P036 268.35(c)] | ing nonwastewa 5, P038, P065, P | ters - F039, K031, K084, K101, K102, K106, P010, P011, 087, P092, U136, U151. (expires -05/08/92). [40 CFR | | | | |
| | Yස | No <u>X</u> | List | | | | |
| 8. | (nonwaster | The following wastes identified as hazardous based on a characteristic alone: D004 (nonwastewaters), D008 (lead materials stored before secondary smelting), D009 (nonwastewaters) (expires - 05/08/92). [40 CFR 268.35(c)] | | | | | |
| | Yes | No 🗶 | List | | | | |
| 9. | bricks carry | Inorganic solid debris as defined in 40 CFR 268.2(g)*; includes chromium refactory bricks carrying EPA Hazardous Waste Nos. K048-K052 (expires - 05/08/92). [40 CFR 268.35(c)] | | | | | |
| | Yes | No 🔀 | List | | | | |
| | *Note: Inco | orrect reference | [40 CFR 268.2(a)(7)] in Third Third rule. | | | | |
| 10. | | RCRA hazardous wastes that contain naturally occurring radioactive materials (expires - 05/08/92). [40 CFR 268.35(c)] | | | | | |
| | Yes | No 🔀 | List | | | | |
| 11. | | Wastes listed in 40 CFR 268.10, 268.11, and 268.12 that are mixed radioactive/hazardous wastes (expires - 05/08/92)*. [40 CFR 268.35(d)] | | | | | |
| | Yes | No <u>×</u> | List | | | | |
| | | | 3.11 wastes incorrectly omitted from this variance in the Third | | | | |



RCRA LAND DISPOSAL RESTRICTION INSPECTION

III. GENERATOR REQUIREMENTS

| TLERT | 1 reactionity Group/ 1 reatment Standard toentification | | | | | | |
|------------------|--|--|--|--|--|--|--|
| *Note: and ot | This information is generally available on LDR notifications. If not, waste profile data her documentation should be checked. | | | | | | |
| 1. | F001-F005 Spent Solvent Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard for each F-solvent? | | | | | | |
| | Yes No NA | | | | | | |
| | If available, list each waste code and check the correct treatability group. | | | | | | |
| | Waste Code Wastewater Nonwastewater | | | | | | |
| | | | | | | | |
| | *Less than 1% by weight total organic carbon (TOC), or less than 1% by weight total FOO1-FOO5 solvent constituents listed in 40 CFR 268.41, Table CCWE. [40 CFR 268.2(f)(1)] | | | | | | |
| | Comments | | | | | | |
| 2. | F020-F023 and F026-F028 Dioxin Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard for each dioxin waste? | | | | | | |
| | Yes No NA <u> </u> | | | | | | |
| | If yes, list each waste code and check the correct treatability group. | | | | | | |
| | Waste Code Wastewater Nonwastewater | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Comments | | | | | | |
| • | *Less than 1% TOC by weight and less than 1% total suspended solids (TSS) by weight. [40 CFR 268.2(f)] | | | | | | |
| 3. | First, Second, and Third Third Wastes: | | | | | | |
| | a. Does the generator correctly determine the appropriate treatability group/treatment standard for each waste? | | | | | | |
| | Yes No NA | | | | | | |

| | If available, lis | t each waste coo | de and check the | e correct treatability group: | | |
|----|--|--|--|---|--|--|
| | Waste Code | Subcategory | Wastewater* | Nonwastewater | | |
| | DOOL. | 7/0% TOC | | | | |
| | | | | | | |
| | * Less than 1% 1 (TSS) with the 1 5% by weight TOO than 4% by weigh | FOC by weight and following excepti C and less than 1 it TOC and less t | less than 1% tot oms: K011, K013, % by weight TSS; han 1% by weight | tal suspended solids and K014 wastewaters - less than K103 and K104 wastewaters - less TSS. [40 CFR 268.2(f)(2) and (3)] | | |
| | Comments | · | | | | |
| b. | Do the assigned may cause the | ed treatment sta waste to exhibit | ndards for listed any characteris | wastes cover constituents that stics? [40 CFR 268.9 (b)] | | |
| | Yes <u>X</u> | No | NA | | | |
| c. | Does the gene | rator specify alt | ernative treatm | ent standards for lab packs?* | | |
| | Yes 🗶 | No | NA | • | | |
| | *Use of the alto | ernative treatmen | t standerds is no | ot required. [55 FR 22629] | | |
| | If yes, do lab p | acks only contain | in the following | wastes?* [40 CFR 268.42(c)(2)] | | |
| | Organics: | etallics: 40 Part 40 CFR Part 26 | 268, Appendix 58, Appendix V | IV constituents constituents | | |
| | *Unregulated was commingled in th | stes and hazardou ne appropriate Ap | s wastes which me pendix IV and V (| et treatment standards may be ab pack. [55 FR 22629] | | |
| d. | Does the gene source leachat | | ernative treatm | ent standards for F039 multi- | | |
| • | Yes | No | NA 📐 | | | |
| | *Use of the alte | ernative treatmen | t standards is re | quired. [55 FR 22619] | | |
| | | | | entified the treatability group wing wastes? [55 FR 22675] | | |
| a. | Liquid hazardo | ous wastes conta | nining PCBs <u>></u> 5 | 0 ppm | | |
| | Yes | No | $NA \sum$ | | | |
| | If yes, check th | e appropriate t | reatability group |): | | |
| | 50 to 500 ppm PCBs ≥500 ppm PCBs | | | | | |

| | b. | Listed or (non-lique content | r characteristic w uids) HOCs, whi | vastes containir ich are not liste | ng ≥1,000 mg/l (d or characteriz | liquids) or mg/kg ed by the HOC |
|----|----------------------|------------------------------|---|---------------------------------------|--|---|
| | | Yes | No | MAX | | |
| | | If yes, ch | eck the appropr | riate treatability | group: | |
| | | Al l c | te HOC wastew other HOCs grea (liquids) or mg/l | ater than or equ | i to 10,000 mg/i ual to the prohib | HOCs) ition level of 1,000 |
| | C. | ≥ 134 m | g/i nickel and/or | \geq 130 mg/l tha | | d also contain |
| | | Yes | No | $_{	extsf{NA}}\underline{	imes}$ | · · · · · · · · · · · · · · · · · · · | |
| 5. | Natio been A.) | nal Capaci identified f | ty Variance Was or wastes covere | ites: Have all ap ed under nation | oplicable Califor al capacity varia | rnia List prohibitions ances? (See Appendi |
| | Yes_ | _ | No | NA 🔀 | | |
| | the w | aste codes, | has the generate rohibitions? (Se | or identified all e Appendix A. | applicable treat) | aly applies to some of tment standards and |
| | Yes_ | _ | No | $\mathtt{NA}\underline{\succeq}$ | ~ | |
| | comp | ete the fol | | each waste cod | | y the generator, te on which relevant |
| | Waste | Code | Cal List A | Applicability | Expiration D | <u>Pate</u> |
| | Com | nents | | | | |
| 6. | Treati an alte | nent stand | ards expressed a | s required tech juired in 40 CF | nologies: Has th R 268.42? | ne generator specified |
| | Yes_ | _ N | lo <u>×</u> .N | A | | |
| | If yes, metho | list the was | ste code, the tec umentation of a | hnology specifi pproval. [40 C | ed in 40 CFR 20 FR 2 68.42(b)] | 58.42, the alternative |
| | Was | ste Code R | equired Techno | ology Alternati | ve Method | <u>Approval</u> |
| | - | | | | | |
| | Сопп | ents | | | | |

| | 7. | | enerator mix restricted wastes with different treatment standards for a of concern? |
|----|------|-----------------------------|---|
| | | Yes | No.X |
| • | | If yes, did t [40 CFR 20 | he generator select the most stringent treatment standards? (8.41(b) and 268.43(b)] |
| | | Yes | No |
| | | Comments | |
| В. | Wast | e Analys is | · |
| | 1. | | enerator determine whether restricted wastes exceed treatment prohibition levels at the point of generation?* [268.7(a)] |
| | | Yes \succeq | No |
| | | | determination may be made at the point of disposal if the waste only has a level in effect. |
| | | If no, does standards? | the generator ship all restricted wastes as not meeting treatment |
| | | Yes | No |
| | | Comments | |
| | 2. | Which of th | ne following analytical methods does the generator employ?* |
| | | a violation. | o ^M answer to applicable questions b. through d. does not necessarily constitute However, knowledge of waste is rarely adequate if a generator certifies that andard criteria have been met. |
| | | a. Kno | owledge of waste: |
| | | Yes | No |
| | | the | es, list the wastes for which applied knowledge was used and describe basis of determination. Attach documentation. [40 CFR 268.7(a)(5)] |
| | | ana | LP*: Are wastes with treatment standards specified in 40 CFR 268.41 lyzed using TCLP?** (BDAT*** = stabilization/immobilization anology) |
| | | Yes | No_ <u>×</u> NA |
| | | EPA **Se | P = Toxicity Characteristic Leaching Procedure [40 CFR Part 268, Appendix I, Test Method 1311) e Appendix C for exceptions. DAT = best demonstrated available technology. See Appendix A. |

| | | test, the frequency of testing, and note any problems. Attach test results. [40 CFR 268.7(a)(5)] |
|----|--------------------|---|
| | C. | Total constituent analysis: Are wastes with treatment standards specified in 268.43 analyzed using total constituent analysis?* (BDAT = destruction/removal technology) |
| | | Yes X No NA NA |
| | | *See Appendix C for exceptions. |
| | | If yes, list the wastes for which total constituent analysis was used and provide the date of last test, the frequency of testing, and note any problems. Attach test results. [40 CFR 268.7(a)(5)] |
| | d. | PFLT*: Was PFLT used to determine if California List constituents were contained in <i>liquid</i> hazardous waste? |
| | | Yes No NA |
| | | *PFLT = Paint Filter Liquids Test [Test Method 9095, EPA Publication No. SW-846] |
| | | If yes, list the wastes for which PFLT was used and provide the date of last test, the frequency of testing, and note any problems. Attach test results. [40 CFR 268.7 (a)(5)] |
| 3. | | he generator treat restricted wastes in 90-day tanks or containers regulated 40 CFR 262.34 (permissible in some states)? |
| | Yes_ | (If No, go to 4.) |
| | | he generator treat the wastes to meet appropriate treatment rds/prohibition levels? |
| | Yes_ | _ No |
| | If yes, testing | has the generator prepared a waste analysis plan detailing the frequency of to be conducted? 40 CFR 268.7(a)(4)] |
| | Y es _ | No (If No, go to 4.) |
| | Does t | he plan fulfill the following? [40 CFR 268.7(a)(4)(i)] |
| | C | used on a detailed chemical and physical analysis of a representative sample ontains information necessary to treat the wastes in accordance with 40 CFR art 268 requirements |

| | Has ti Expre | Has the plan been filed with the Regional Administrator (return receipt, Federal Express slip, etc. required for verification)? [40 CFR 268.7(a)(4)(ii)] | | | | | |
|----|-----------------|---|--|--|--|--|--|
| ٠ | Yes_ | No | | | | | |
| | Comp | nents | | | | | |
| 4. | Diluti | on Prohibition [40 CFR 268.3]: | | | | | |
| | 8. | Does the generator mix prohibited* wastes with different treatment standards? | | | | | |
| | | *See Appendix E for distinction between restricted and prohibited wastes. | | | | | |
| | | Yes No (If No, go to b.) | | | | | |
| | | List the wastes | | | | | |
| | | Are the wastes amenable to the same type of treatment? [55 FR 22666] | | | | | |
| | | Yes No | | | | | |
| | | Comments | | | | | |
| | b. | Does the generator dilute prohibited wastes to meet treatment standard criteria, or render them non-hazardous? [55 FR 22665-22666] | | | | | |
| | | Yes No X (If No, go to c.) | | | | | |
| | | Check appropriate category: | | | | | |
| | | Dilutes to meet treatment standards Dilutes to render waste non-hazardous | | | | | |
| | | Do the wastes fall into the following categories? (Check if appropriate.) [40 CFR 268.3(b)] | | | | | |
| | | Managed in treatment systems regulated under the Clean Water Act Non-toxic* characteristic wastes Treatment standard specified in 40 CFR 268.41 or 268.43 | | | | | |
| | | *Non-toxic = D001(except high TOC nonwestewaters), D002, and D003(except cyanides and sulfides). [55 FR 22666] | | | | | |
| | | If the wastes do not fall into the above categories, briefly describe the conditions under which they were diluted. | | | | | |
| | c. | Based on an assessment of points a. and b., and any other relevant circumstances, does the generator dilute prohibited wastes as a substitute for adequate treatment? [40 CFR 268.3(a)] | | | | | |
| | | Yes No <u>×</u> | | | | | |
| | • | Comments | | | | | |

| 5. | F039 Multi-source leachate: Has the generator run an initial analysis for all constituents of concern in 40 CFR 268.41 and 268.43? [55 FR 22620] | | | | | | |
|-------|--|--|---|--|--|--|--|
| | Ycs_ | _ No_ | _ NA | \mathbf{x} | | | |
| Мапад | gement | | | · | | | |
| 1. | On-Si | te Management | | | | | |
| | a. | Are restricted greater than 9 | l wastes treate 00 (small quan | d (other than in a RCRA exempt unit), stored fo tity generator* - 180) days, or disposed on site? | | | |
| | | Yes | No 🔀 | | | | |
| | | (If yes, the TS | SD Checklist r | nust also be completed.) | | | |
| | | * Small quantit less than 1,000 waste | ty generator = g) kg/mo. hazardo | penerator of greater than or equal to 100 kg/mo. but ous waste, or less than 1 kg/mo. acutely hazardous | | | |
| | | Comments_ | | <u> </u> | | | |
| | b. | Clean Water restriction, he pursuant to at 22662] | Act, have the tower stricted was NPDES peri | acteristic wastes in systems regulated under the following been documented: the determination castes are managed, and why wastes discharged mit are not prohibited (if applicable)? [55 FR | | | |
| | | Yes | No X | NA | | | |
| * | c. | If the generator treats characteristic wastes in RCRA exempt units to retthem non-hazardous, are the wastes managed as restricted until 40 CFR 268 treatment standards are met?* [40 CFR 268.9(d)] | | | | | |
| | | Yes | No 💢 | NA | | | |
| | | *This applies t 268.41 and 268 treatment below | to both concentr 43, and to some the characteri | ration based treatment standards specified in 40 CFR 40 CFR 268.42 required methods which result in atic level. See Appendix D. | | | |
| 2. | Off-Site Management: Waste Exceeds Treatment Standards | | | | | | |
| | 8. | /prohibition le | | waste that exceeds treatment standards ect to a national capacity variance) to an off-site? | | | |
| | | Yes $ ot\succeq$ | N o | (If No, go to 3.) | | | |
| | | Identify waste wastes are shi | | off-site treatment or storage facilities to which | | | |
| | | Waste Code Deel Foot/2001 | Rallin | ing Facility S. US | | | |
| | | | | | | | |

(

C.

| | | Does the ger [40 CFR 268 | | a notification to the treatment of storage facility |
|----|------------|--|--------------------------------------|--|
| | | Yes \sum | No | (If No, go to 3.) |
| | | If the genera certification notification? | required in 40 | ternative treatment standards for lab packs, is the CFR 268.7(a)(7) or (8) included with the |
| | | Yes \underline{X} | No | NA |
| | b. | Is a notificat | ion sent with e | ach waste shipment? |
| | | Yes 🔀 | No | |
| | | | vaste subject to erator only)? | a tolling agreement pursuant to 262.20(e) (smal |
| | | Yes | No | (If No, go to 3.) |
| | | List waste co tolling agree | des and subsec ment is held. | quent handler with whom a contractual |
| | | Waste Code | Subseq | uent Handler |
| | | Did the smal facility with the CFR 268.7(a | he first waste s | rator provide a notification to the receiving hipment subject to the tolling agreement? [40 |
| | | Yes | No | |
| 3. | Off-S | ite Managemer | nt: Waste Mee | ts Treatment Standards |
| | a . | | nerator ship wa off-site disposal | ste that meets treatment standards/prohibition facility? |
| | | Yes | No 🔽 | (If No, go to 4.) |
| | | Identify wast | e code(s) and | off-site disposal facilities: |
| | | Waste Code | | Receiving Facility |
| | | | | |
| | | | | a notification and a certification to the disposal 2)(i) and 268.7(a)(2)(ii)]? |
| | , | Yes | No | (If No, go to d.) |
| | | | | |

| | ð. | Are a notification and a certification sent with each waste simplifient? | |
|---|----|--|--------|
| | ·. | Yes No | |
| | | If no, is the waste subject to a tolling agreement pursuant to 262.20(e) (quantity generator only)? | (smal) |
| | | Yes No (If No, go to c.) | |
| | | List waste codes and subsequent handler with whom a contractual tolling agreement is held. | |
| | | Waste Code Subsequent Handler | |
| | | | |
| | | Did the small quantity generator provide a notification and a certification the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)] | on to |
| | | Yes No | |
| | c. | Are characteristic wastes which have been rendered non-hazardous (in RCRA exempt unit) shipped to a Subtitle D facility? | a |
| | | Yes No NA (If No or NA, go to 4.) | |
| | | Complete the following table: | |
| | | Waste Code Receiving Facility | |
| • | | | |
| | | Are a notification and a certification for each shipment sent to the Regi Administrator or authorized State? [40 CFR 268.9(d)(1) and 268.7(b)(| |
| | | Yes No | |
| 4 | | Off-Site Management: Wastes Subject to Variances, Extensions, or Peti | itions |
| | а. | Does the generator ship wastes to a treatment, storage, or disposal facili which are subject to a national capacity variance (40 CFR Part 268, Sub C), or case-by-case extension (40 CFR 268.5)? | |
| | | Yes No (If No, go to 5.) | |
| | | Complete the following table: | |
| | | Waste Code Receiving Facility | |
| | | | |
| | | | |
| | | | |

(

| | | Does the generator provide notification to the off-site receiving facility that the waste is not prohibited from land disposal? [40 CFR 268.7(a)(3)] | | | | | |
|----|-------------|--|---|---------------------------|--|-------------------------------------|----------------------------------|
| | | Yස | No | | | | |
| | b. | b. Is a notification sent with each waste shipment? | | | | | |
| | | Yes | No | - | | | |
| | | If no, is the 262.20(e) | e waste subj (small quant | ect to a to ity genera | lling agreement tor only)? | t pursuant to 4 | 0 CFR |
| | | Yes | No | _ (| If No, go to 5.) | | |
| | | | codes and steement is he | | handler with w | hom a contrac | tual |
| | | Waste Coo | <u>de</u> : | _ | | | |
| | | | | | | <u>-</u> | |
| | | • | | | | , | |
| | | facility wit | nall quantity h the first w 68.7(a)(9)] | generator aste shipn | r provide a noti nent subject to | fication to the the tolling agre | receiving ement? |
| | | Yes | No | : - | | | |
| 5. | Recor | ds Retentio | n | | | | |
| | | | | | of all notifications? [40 CFR 26 | | ons, and other |
| | Yes _ | No. | _ | | | | |
| | certifi | | on site for a FR 268.9] | it least 3 y | nts, along with t ears after expire | | |
| | Yes_ | _ No | _ | $NA \ge$ | | | |
| | | d national c | | | agement of was by case extens | | |
| | Yes <u></u> | < No | <u> </u> | NA | *5 | | |
| | wastes | which had tre | ote that the seatment stand | ards establ | provision expirished in the Thi | ed as of 05/08/9 rd Third rule w | 20. Soft hammer ere granted a |
| | Comm | | | | | | |

* f ...

| D. | 1169 | ment Using RCRA 40 CFR Parts 204 and 205 exempt Chils of Trocesses |
|----|------|--|
| | 1. | Are restricted wastes treated in RCRA exempt units (i.e., boilers, furnaces, distillation units, wastewater treatment tanks, elementary neutralization, etc.)? |
| | | Yes No (If No, do not complete this section.) |
| | | List types of waste treatment units and processes: |
| | | Waste Code Type of Treatment Treatment Units and Processes |
| | 2. | Are treatment residuals generated from these units? |
| | | Yes No |
| | 3. | Are residuals further treated, stored for greater than 90/180 days, or disposed on site? |
| | | Yes No NA |
| | | (If yes, the TSD checklist must also be completed.) |
| | | |
| | | |
| | | |
| | | |
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| | - | |

NEW JE. BY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE MANAGEMENT HAZARDOUS WASTE INSPECTION REPORT

DWM-029

GENERATOR INSPECTION REPORT

| | FACILITY INFORMATION |
|--|---|
| | FACILITY NAME: MONSANTO CHEMICAL CO DETERGANTS |
| | FILE NUMBER: 09-07-37 |
| | VHT FACILITY FILE NUMBER: |
| | PERMIT #: |
| • | REGION: M |
| | INSPECTION DATE: 11-29-89 |
| | INCIDENT/CASE NUMBER: |
| er e | INSPECTION TYPE: GENERATOR/LAND BAN |
| | RESPONSIBLE AGENCY CODE: |
| | INSPECTOR'S NAME: DAN BURGOYNE STEPHAN SZARDENING |
| | INSPECTOR'S AGENCY: DHWM |
| | INSPECTOR'S BUREAU: MFO |
| AN 10 RECT | EPA ID NUMBER: NJD 002444933 |
| AN , | ADDRESS: PENNSYLVANIA AVE, |
| | KEARNY, N.J. 07032 |
| | LOT: 49,50,19 BLOCK: 284,289 |
| - | COUNTY: HUDSON |
| | FACILITY PERSONNEL: CELSO BALAN |
| | TECHNICAL SERVICE SUPERVISOR |
| | TELEPHONE 1: (201) 589 -0350 |
| | OTHER STATE PERSONNEL: STEPHAN SZARDENINGS |
| | REPORT PREPARED BY: DAN BURGAYNE / STEPHAN SARDENINGS |
| | REVIEWED BY: Officeling |
| | DATE OF REVIEW: $\frac{1/19/90}{}$ |

REVISION: 3 Ø1/88

| TIME IN: 11:00 | | | |
|--------------------------|---------------|-----------------|-----------------|
| TIME OUT: 16:10 | | | |
| PHOTOS TAKEN () YES | | IF TES, HOW MAI | NY? |
| SAMPLE TAKEN () YES | (V) NO | NO. OF SAMPLES | |
| | | NJDEP SAMPLE II |)#: |
| MANIFESTS REVIEWED (_V | _ | 10 G | |
| Number of manifests | • | ace O | |
| List manifes compliance. | t document nu | bers of those | menifests not i |

FACILITY DESCRIPTION AND OPERATIONS (continued):

KERN WARETEN at Theresente en country at the

| FACILITY DESCRIPTION AND OPERATIONS (continued): |
|--|
| the process, 3 respections were strained in precious o |
| A) The selid catalogst revin sound in the morters, is remorted a hapor down |
| und house of the phenel place of one champion as a constituent week DO2/U138. The |
| description of this work there with Reband Schowen Buren of Hyperton Mit Reporter and |
| Charlication Jon 1/30/59, he state that the waste strain he hashing as C-377 - and phend is |
| c conduints - |
| B) (little the catificant is specific new little is proceed into the reconstruction, MCC |
| then airly letter to the marters. In between would for its wheat properties at to a men all |
| existed the which the colleged and marter . The total or factor actition in then removed from |
| the reacte and demand. This waite should brace leven classified as an Foo5 waste, but the facility |
| were muchasuling the waste as a DOO1 ignotable. This solution is majorofic molety |
| 70% letuene and 30% water. |
| C) The spent distribution and are now considered a hosperdous west, because |
| of the shore and menore concentrations found. Frother, the two horized can comprise up. |
| to 80% of the custolate. This waste is designed (preparely by Themante) as a UCC1 wet |
| strain for the farmmebility, rather than a condition water |
| The OA/GC let is a 2 now stup, located on the 350 fleer of the weatherse |
| The sail of well-only received partiet samples directly from the partietion line and test |
| them to make some the product much their quality interview a little the taking all |
| many politions on unclimited, and shipper of the in less parties. |
| |
| The machine shop located on the 15 floor of the powerhouse. The machine the |
| process only a small amount Tourntity of most of per month. This want oil is |
| The state of the s |

cook'

FACILITY DESCRIPTION AND OPERATIONS (continued):

| | as me degrees activities taking place. The live son to the second in the |
|-------------|--|
| | 1.87 th 1.07.0% |
| | The hospideurs prest theory which is a located undermate the confounds sile |
| | The building has been adjusted containent installed (smile last importion of \$13/83). |
| | All branches west modured on tale is dead of this friction, the area was increase |
| | endition with it against water Discontinue. The problems cited at this breation were for |
| Anna Mark | having inaderirate able space (and between I new of dilec chains), having I |
| P. (1.9149) | undertal count continued the californiam, and lacking to keep a within lose status |
| | the area is inspected daily (Mr. Baken stated he does perform a daily inspection |
| | every days, but was not aware decomentation is nearled). |
| | The specifity does not utilize my underground storage lands at all on the box dity |
| | mounds, and has no feedther med since their leaders men run on natural governing. |
| | The facility town bound all assay of the facility to be used maintained |
| | and managed. Pri site at this time, were 2-55 get x725, 1-55 get X725, |
| | 1-55gir U147 (districtions), 45-30gol filter drums DOOD, 1-15gol petrissim |
| | promongenete. They drame appeared to be in good working order, and well |
| | inanajed. |
| | The pricating also mainteens are sol spills statues; see winterned breating |
| | operation, and an auxiliarit of frequenting agrigment throughout the facility. |
| | The against decommodation review was contacted, and found that. |
| | except forthering of written jet description for each printer a total to hayarders west |
| | menergenent; E) lest of manner ANDRESSES, and phone oundered in continuous ten, and |
| - | I get title to make not freshing whating to have shown went make ment |
| | and many of springer in printion, MCC was in full compliance. |

| ACILITY DESTRIPTION AND OPERATIONS (continued): |
|--|
| The facility does produce a land disposal restricted write, that has been previously misclassified by MCC in the past This was the Dool (solid catalyst resin impregnated with tolorene) that shall have been classified as an FUE wester. |
| that has been previously misclassitial by MCC in the past |
| This was the Dool (solid catalyst resin impregnated with |
| tolorene) that shall have been classified as an Foot weste. |
| For this reason, I feel that a retend to USEPA is |
| _nerossary |
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| * SHOULD BE 2377 (PHENOL IS CONSTITUE T) |
|---|
| A SHOULD BE FOOD 70% TOLUENE / 30% WATER SOLUTION - USED FOR |
| SOLVENT PROPERTIES TO DRAW WATER FROM CATPLYST WHEN ADDED TO REACTOR. |
| Describe the activities that result in the generation of hazardous waste. |
| - MANUFACTURE OF ALKYL PHENOL A) SPINTHETIC SOLID RESIN IM- |
| PREGNATED WITH PHENOL (DOO2) (U188).** |
| B) SPENT DISTILLATION ENDS - FLAMMABLE (DOOI) and nonene |
| - WHEN ADDING NEW CATPLYST TO SYSTEM, USE TOLUENE (DOOI) TO |
| EXTRACT EXCESS WATER (DONE @ ONCE A GEAR). |
| - WASTE OIL FROM MAINTENENCE SHOP (X725). |
| - VARIOUS LAB PACK ITEMS = FROM QA/QC - PERIODIC SHIPMENTS |
| |
| Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes) |
| / (Identity wasta codes) |
| 2-55 gal drums X725 - WASTE OIL (from maintenence shop) |
| 1-55 gal drum DOO2 -> CORROSIVE SOLID (contains ALID) |
| 1-55 gol drum U147 -> MALEIC ANHYDRIDE |
| 45-30 gal filer drums DOO2 -> SONTHETIC SOLID RESIN THAT |
| is impregnated with Phenol. |
| 1-15 gal drum POTASSIUM PERMANGENATE* |
| * bought by Monoanto, but never utilizeed. Was never |
| bought back by the peller. Shipping it off- site |
| as hay waste. |
| |
| |
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| |
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| |

| | GENERAL CHECKLIST | | | |
|---------------------|--|--------------|--------|---|
| GENERAL | | YES | NO N/A | |
| 7:26-7.4(a)1 | Does the Generator have an EPA ID number? | | | _ |
| HAZARDOUS WASTE DET | ERMINATION | | | |
| 7:26-8.5(a) | Did the generator test its waste to determine whether it is hazardous? | $\sqrt{}$ | | |
| 7:26-8.5(b) | Did the generator determine the hazardous characteristics based upon knowledge of process? | $\sqrt{}$ | _ | |
| | Is the waste hazardous? | \checkmark | _ | _ |
| 7:26-8.5(d) | Were test results, waste analysis, or other determinations made in accordance with this section kept for three years from the date that the waste was last sent to an on-site or off-site TSF? | <u> </u> | | _ |
| MANIFESTS : | | | | |
| 7:26-7.4(m)4 | Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient on G-1). | | | _ |
| 7:26-7.4(a)41 | The generator's name, address and phone number. | \checkmark | | |
| 7:26-7.4(a)411 | The generator's EPA ID number. | V | _ | _ |
| 7:26-7.4(a)4111 | The hauler(s) name, address phone number and NJ registration. | 1/ | | _ |
| 7:26-7.4(a)41v | The hauler(s) EPA ID number. | <u> ک</u> نـ | | |
| 7:26-7.4(a)4v | The name, address and phone number of the designated TSD facility. | 1 | _ | |
| 7:26-7.4(a)4V1 | The TSF's EPA ID number. | 1 | | |
| 7:26-7.4(a)4v | The name, address and phone number of the designated TSD facility. | \checkmark | | _ |
| 7:26-7.4(a)4v11 | The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same? | <u> </u> | | |
| 7:26-7,4(m)4v111 | Special handling instructions and any other information required on the form to be shipped by generator? | 1 | | |

| | | YES N | 0 <u>N/A</u> | |
|---------------------------|--|--------------|--------------|----------|
| 7:26-7.4(3) | Did the generator describe all N.O.S. wastes in Section J? | $\sqrt{}$ | | |
| 7:26-7.4(a)1x | When shipping hazardous waste to a waste reuse facility does the generator enter the waste reuse facility I.D. # in the section G of the Uniform Manifest? | ✓_ | | |
| 7:26-7.4(m)5 | Before allowing the manifested waste to leave the generator's property, did the generator: | | | _ |
| 7:26-7.4(a)51 | Sign the manifest certification by hand? | $\sqrt{}$ | _ | |
| 7:26-7.4(a)511 | Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest? | \checkmark | _ | |
| 7:26-7.4(a)5111 | Retain one copy and forward one copy to the state of origin and one copy to the state of destination? | <u>V</u> | _ | |
| 7:26-7.4(a)51v | Provide the required numbers of copies for: generator, each hauler, owner/operator of the designated facility, as well as one copy returned to the generator by the facility owner/operator? | <u>/</u> | _ | |
| 7:26-7.4(a)5 v | Give the remaining copies of the manifest form to the hauler? | | | |
| 7.26-7.4(f) | Has the generator maintained facility records for three (3) years? (Manifest(s), exception report(s) and waste analysis) | ✓ | | |
| 7:26-7.4(h)1 | Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago? | | | _ |
| 7:26-7.4(h)1 | If not: Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at (609) 292-8341 to inform the NJDE of the situation? | p | | <u> </u> |
| 7:26-7.4(h)2 | Have exception reports been submitted to the Department covering any of these shipments made more than 45 days ago? | e d | | / |

| 7:26-9.3 | Accumulation Time | | |
|--------------|---|--|--|
| | How is waste accumulated on site? (V) Containers (V) Containers (V) Containers (Complete HWMF (TSD) Facility Checklist) | |
| | YES NO N/A | | |
| 7:26-9.3(a)1 | Is waste accumulated for more than 90 days? | | |
| • | | | |

STOP HERE IF THE HAZARDOUS WASTE MANAGEMENT FACILITY (TSF) CHECKLIST IS FILLED OUT.

Short term accumulation standards for generators who accumulate waste in containers and tanks for 90 days or less:

| | | YES | NO | N/A |
|-----------------|--|-------------------------------------|------------------------------------|--|
| Containers | | 1 10-1 | \ A | |
| 7:26-9.4 | What type of containers are used for storage. Describe size, type, quantity, and nature of waste (e.g. 12 fifty-five gallon drums of waste acetone). #5-30gal falls Januar Doog | 1-15ggi 2-55gg 1-55g 1-55g | drum perma el wast el male el male | ngenate. E oil X726 aic anhydral phasphoric ac |
| 7:26-9.4(d)2 | Do the containers appear to be in good condition, not in danger of leaking? | ✓ | | _ |
| | If no, describe the problem (include number of containers involved.) | • | | |
| 7:26-9.4(d)41 | Are all containers securely closed except those in use? | \checkmark | _ | |
| 7:26-9.4(d)4111 | Do the containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing and/or leaking? | ₹. | _ | |
| 7:26-9.4(d)41v | Are containerized hazardous wastes segregated in storage by waste type | · <u>√</u> | _ | |
| 7:26-9.4(d)4v | Is every container arranged so that its identification label is visible | | \checkmark | |
| 7:26-9.4(d)5 | Is the container storage area inspected at least daily? **FAILURE TO DOCOMENT INSPECTIONS. | | \checkmark | |
| 7:26-9.4(d)6 | Are containers holding ignitable and reactive wastes located at leas 50 (fifty) feet (15 meters) from the facilities property line? | _ | | _ |
| 7:26-7.2(a) | Did the owner/operator conspicuous! label appropriate manifest number of all hazardous waste containers that are intended for shipment? | MZ. | _ | _ |
| 7:26-9.3(a)3 | Is each container clearly dated wit each period of accumulation so as to be visible for inspection? | | | _ |

overfilling?

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| | | YES 1 | NO N/A | |
|----------------------------|---|-------|--------|--|
| 7:26-10.5(c)211 | For uncovered tanks, is there sufficient (two feet or acceptable documentation) freeboard to prevent overtopping by wave or wind action by or precipitation? | _ | | |
| .7:26-9.3(b)3 | Does each tank(s) or storage tank area have secondary containment? | | _ | _ |
| 7:26-10.5(d)1 | Is the containment system capable of collecting and holding spills, leaks, and precipitation? | _ | | |
| 7:26-10.5(d)11 | Is the base underlying the tank(s) free from cracks, gaps, and sufficiently impervious to contain leaks, spills, and accumulated rainfall until the collected material is detected and removed? | _ | | And the second s |
| 7.26-10.5(d)11 | Does the containment system consist of material compatible with the wastes being stored? | _ | | |
| 7:26010.5(d)111 | Is the containment system sloped or otherwise designed to efficiently drain and remove liquids resulting from leaks, spills and precipitation? | | - | |
| 7:26-10.5(d)111 | Is the tank protected from contact with accumulated liquids? | _ | _ | |
| 7:26-10.5(d)1 v | Does the containment system have sufficient capacity to contain ten percent of the volume of all tanks or the volume of the largest tanks whichever is greater? | | | |
| 7:26-10.5(d)2 | Is run-on into the containment area prevented? | _ | | : |
| | If not, explain. | | | |
| 7:26-10.5(d)3 | Is precipitation removed from the pump or collection area in a timely manner to prevent blocksge or overflow of the collection system? | | | |
| 7:26-10.5(d)4 | Is spilled or leaked waste removed from the pump or collection area daily? | _ | | ¥ |

| | | YES NO | N/A | |
|-----------------|--|--------------|----------|------------|
| 7:26-10.5(d)41 | If the collected material is hazardous waste under NJAC 7:26-8, it is managed as a hazardous waste in accordance with all applicable requirements of this chapter? | | | <u>√</u> . |
| 7:26-9.4(g)4 | Personnel Training | | | |
| | Have facility personnel successfully completed a program of classroom instruction or on-the-job training since six months after the date of their employment or assignment to the facility or to a new position at the facility? | ✓ | _ | _ |
| 7:26-9.4(g)5 | Has facility personnel taken part in an annual review of initial training? | \checkmark | _ | |
| 7:26-9.4(g)2 | Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan to implementation) relevant to the positions in which they are employed? | <u>∠</u> | | |
| | Is there written documentation of the following: | | | |
| 7:26-9.4(g)61 | Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job? | | <u>/</u> | |
| 7:26-9.4(g)611 | A written job description for each position related to hazardous waste management? | _ | _ | _ |
| 7:26-9.4(g)6111 | A written job description on the type and amount of both introductory and continuing training that has been and will be given to personnel in jobs related to bezardous waste management | | | |
| 7:26-9.4(g)61v | Documentation of ectual training or experience received by personnel? | \checkmark | | |
| 7:26-9.4(g)7 | Are training records kept on all current employees until closure of the facility and training records kept on former employees for three years from their last date of employment? | . <u>√</u> | | |
| | | | | |

| 7:26-9.6 | Preparedness and prevention | | | |
|--------------|--|-----------|----------|---------|
| | Does the facility comply with preparedness and prevention requirements including maintaining: | , | | |
| 7:26-96(b)1 | An internal communications or alarm system? | <u></u> | _ | · —- |
| 7:26-9.6(b)2 | A telephone or other device to summon emergency assistance from local authorities? | <u>/</u> | _ | |
| 7:26-9.6(b)3 | Portable fire equipment, spill control equipment, and decontamination equipment? | $\sqrt{}$ | | _ |
| 7:26-9.6(b)4 | Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray system? | | | _ |
| 7:26-9.6(c) | Is equipment tested and maintained? | <u> </u> | | _ |
| 7:26-9.6(d)1 | Is there immediate access to communications or alarm systems during systems during handling of hazardous waste? | | | |
| 7:26-9.6(e) | Adequate aisle space (18") to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment? | | <u>/</u> | |
| | If no, please explain. | | | |
| | In your opinion, do the types of waste on site require all of the above procedures, or are some not required? | <u>/</u> | | |
| | Explain. | | | |
| 7:26-9.6(f) | Has the facility made the following arrangements, as appropriate for the type waste handled on site: | | _ | |
| 7:26-9.6(f)1 | Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled — associated hazardous places where facility personnel would normally be working, entrances and roads inside facility and possible | / | | |
| | evacuation routes. | <u> </u> | | |

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| 7:26-9.6(f)2 | Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority? | | | <u> </u> |
|----------------|--|----------|---|------------|
| 7:26-9.6(f)3 | Agreements with emergency response contractors, and equipment supplies? | <u>/</u> | | _ |
| 7:26-9.6(£)4 | Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosion, or discharges at the facility? | <u>/</u> | | _ |
| 7:26-9.6(f)5 | Arrangement with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually? | <u> </u> | _ | · . |
| 7:26-9.6(f)6 | If authorities identified in (f)l through 5, above decline to enter into auch arrangements, has the owner, or operator documented this refusal in the operating record. | _ | _ | _/ |
| 7:26-9.4(g)8 | Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7.26-9.7? | ∠ | | |
| 7:26-9.4(g)81 | If no, did the owner or operator petition the Department for an exemption from the semi annual drills requirement? | | | <u>/</u> · |
| 7:26-9.4(g)811 | Did the owner or operator petition the Department for an exemption excluding some or all local officials in the semi annual drill requirements? | | | <u> </u> |
| | If yes, did the owner operator pro- vide those specific local officials with written approval of the | | | |

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YES NO N/A

Contingency Plan and Emergency Procedures Does the facility have a written 7:26-9.7(a)contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents into air, soil or surface water? 7:26-9.7(b) Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment? 7:26-9.7(c) Does the contingency plan describes the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or aurface water at the facility? 7:26-9.7(d) Did the owner or operator prepare a Spill Prevention, Control, and Counter-measures (SPCC) Plan in accordance with 40 CFR 112 or 300 or a Discharge Prevention Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq. If yes, did the owner or operator amend that plan to incorporate hazardous waate management provisions that are sufficient to comply with the requirements of this section? 7:26-9.7(e) Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response

teams to coordinate emergency services?

7:26-9.7(f)

Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be names as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates?

held home addresss

7:26-9.7(g)

Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external) and decontamination aquipment), where this equipment is required? Is the list up-to-date? In addition, does the plan include the location and physical description of each item on the list, and a brief outline of ita capabilities?

7:26-9.7(h)

Does the plan include an evacuation procedure for facility personnel where there is a possibility that avacuation could be necessary? Does this plan describe aignal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cass where the primary routed could be blocked by releases of hazardous waste or firsa)?

7:26-9.7(1)

Is a copy of the contingency plan and all revisions to the plan:

- Maintained at the facility;
- 2. Has the contingency plan been submitted to local authorities (police fire departments, emergency response teams)?

7:26-9.7(k)

The same

Is there an employee on aite or on call at all times with the responsibility of coordinating, all emergency response measures? **V**_

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APPENDIX A

SOLVENT IDENTIFICATION CHECKLIST

| 1. | Does the handler generate any of the f constituents (i.e., spent halogenated solv degreasing) as a result of being used in pure form or commercial grade? | ents used in | |
|----|---|-------------------------------------|---------|
| | tetrachloroethylene trichloroethylene methylene chloride 1,1,1-trichloroethane carbon tetrachloride chlorinated fluorocarbons | YesNoYesNoYesNoYesNoYesNo | |
| 2. | Does the handler generate any of the f constituents (i.e., spent halogenated sol being used in the process either in pur commercial grade? | vents) as a result of | |
| | tetrachloroethylene trichloroethylene methylene chloride 1,1,1-trichloroethane chlorobenzene trichlorofluoromethane 1,1,2-trichloro-1,2,2-trifluoroethane ortho-dichlorobenzene | Yes | |
| 3. | Does the handler generate any of the is constituents (i.e., spent nonhalogenated result of being used in the process eith commercial grade? | solvents) as a | |
| | xylene acetone in lab ethyl acetate ethyl benzene ethyl ether in lab introde methyl isobutyl ketone n-butyl alcohol cyclohexanone methanol in lab | Yes | |
| | If the F003 waste stream has been mix does the resultant mixture exhibit the | ed with a solid waste, ignitability | المرالم |

Revised 11-03-87

| 4. | Does the handler generate any of the followin constituents (i.e., spent nonhalogenated solvent result of being used in the process either in process commercial grade? | s) as a | |
|----|--|--------------------------------------|----------------------------|
| | cresols and cresylic acid nitrobenzene | _Yes _Yes | No No |
| 5. | Does the handler generate any of the followin constituents (i.e., spent nonhalogenated solven result of being used in the process either in p commercial grade? | ts) as a ure for | l |
| | toluene oned once a grandyst methyl ethyl ketone carbon disulfide isobutanol is lab pyridine | _Yes _Yes _Yes _Yes _Yes | No No No No No |
| 6. | Are any of the constituents listed in question 5 used for their "solvent" properties that is (dissolve) or mobilize other constituents? The questions will be helpful in confirming this d | to solu follo | ibilize wing |
| | (a) Are the constituents used as chemical ca | rriers' _Yes | No |
| | If yes, list the constituents. | | |
| | (b) Are the constituents used for degreasing accepting osed for cheaning lead glasswere. If yes, list the constituents. | g/clear Yes | ning? No |
| | | | |
| | (c) Are the constituents used as diluents? | _Yes | No |
| | If yes, list the constituents. | | |
| | (d) Are the constituents used as extractants | ?/ | |
| | | / V | No |

| | list the constituents. | cisting from cutalyst |
|---------------------------|--|---|
| (c) A | re the constituents used for | r fabric scouring?YesNo |
| If yes, | list the constituents. | |
| (f) A | re the constituents used as | reaction and synthesis media? |
| If yes, | list the constituents. | |
| he respon | ises to questions I through | 6 led the inspector to |
| eve that | the waste may be an F-solv | ent, answer question 7. |
| is consi usable | dered "spent" when it has twithout being regenerated, | reclaimed, or otherwise |
| reproce | ssed.) | YesNo |
| questio | waste is a mixture of consti ns 1 through 6, give the con nents in the solvent mixture | ncentration before use of all |
| 5% | methylene chloride | |
| 2% | trichloroethylene | 17/11 |
| 25% <u>68%</u> 100% | 1,1,1-trichloroethane mineral spirits | N/A. |
| or more | waste stream is a mixture c c (by volume) of one or mo i listed constituents before | ore of the F001, F002, F004, |
| waste s | spect to the F003 solvent w tream is mixed and contain ed waste. For example: | vastes, if, before use, the us only F003 constituents, it |
| 33% | acetone | N/A |
| 16% | methanol | NIA |
| <u>51%</u> 100% | ethyl ether | |

If the waste stream is a mixture containing F003 constituents and a total of 10% or more of one or more of the F001, F002, F004, and F005 listed constituents before use, it is a listed waste. For example:

50% xylene (F003) 12% TCE (F001) 38% mineral spirits 100%

If in light of the above, the handler appears to be generating F001 - F005 hazardous wastes, refer this facility to the enforcement official for followup actions verifying the use of solvents at the facility.

13

APPENDIX B TREATMENT STANDARDS FOR F-SOLVENTS

| | CONCENTRATION (IN MG/L) | | | |
|--------------------------------------|-------------------------|--------------|--|--|
| F001-F005 SPENT SOLVENTS | WASTEWATERS | OTHER WASTES | | |
| Acetone | 0.05 | 0.59 | | |
| N-butyl | 5.0 | 5.0 | | |
| Carbon disulfide | 1.05 | 4.81 | | |
| Carbon tetrachloride | .05 | .96 | | |
| Chlorobenzene | .15 | .05 | | |
| Cresols (and cresylic acid) | 2.82 | .75 | | |
| Cycohexanone | .125 | .75 | | |
| 1,2-dichlorobenzene | .65 | .125 | | |
| Ethyl acetate | .05 | .75 | | |
| Ethyl benzene | .05 | .053 | | |
| Ethyl ether | .05 | .75 | | |
| Isobutanol | 5.0 | 5.0 | | |
| Methanol | .25 | .75 | | |
| Methylene chloride | .20 | .96 | | |
| Methylene chloride (from the pharmac | ceutical | | | |
| industry) | 12.7 | .96 | | |
| Methyl ethyl ketone | 0.05 | 0.75 | | |
| Methyl isobutyl ketone | 0.05 | .33 | | |
| Nitrobenzene · | 0.66 | 0.125 | | |
| Pyridine | 1.12 | 0.33 | | |
| Tetrachloroethylene | 0.079 | 0.05 | | |
| Toluene | 1.12 | 0.33 | | |
| 1,1,1-Trichtoroethane | 1.05 | 0.41 | | |
| 1,2,2-Trichlor 1,2,2-trifluoroethane | 1.05 | 0.96 | | |
| Trichloroeth ylene | 0.062 | 0.091 | | |
| Trichlorofluoromethane | 0.05 | 0.96 | | |
| Xylene | 0.05 | 0.15 | | |

| Inspector | D.B. | RGOYNE | /S.Sz | ardening |
|-----------|--------|----------|-------|----------|
| Address: | 2 Km | COCK | L. | |
| h |), ORI | AVCE. | N.J. | 07052 |
| Telephone | No: | (201) 66 | 1-39 | 60 |

RCRA LAND DISPOSAL RESTRICTION GENERATOR CHECKLIST

| I. | HANDLER IDENTIFICATION | | | |
|-----|--|---------------------------|------------------|-------------------------|
| | MONSANTO CO. | Pi | ENNSYLVANIA | |
| Ā. | Handler Name | | | t (or other identifier) |
| | KEARNY, | N.J. | 07032 | HUDSON |
| Ċ. | City | D. State | E. Zip Code | F. County Name |
| | Chemical Mes of Nature of Business; Ident | intermediate : | surfactants | |
| G. | Nature of Business; Ident | ification of Operati | ons: SIC Code(s) | |
| | NJD 002444933 | | | |
| H. | EPA ID V | | | |
| | CELSO BALAN - T | ECHICICAL SERV | ICE ZODEKNIZ | OR. |
| ī. | Handler Contact (Name and | Phone Number) | | |
| | | | | 0 |
| II. | GENERATOR COMPLIANCE | | | Comments |
| A. | Vaste Identification | | | an Drawn |
| : | 1. F-Solvents | | | catalytic resin impray |
| | a. Does the handler | generate the follow | ing vastes? | Tolvene tall this |
| | | _ | / | vaste as boot not |
| | (1) P001 , P 002 | , 1004, of 1003) <u>V</u> | iesno pe | unte as boot no |
| | (ii) F003 | | Yes <u>V</u> No | poot |
| • | If an F003 wastestre | am (listed solely fo | or | poos |
| | ignitability) has be | | | NIT |
| | solid or hazardous w mixture exhibit the | | | |
| | | _ | YesNo | |
| | b. Source of the ab | ove: Form 8700-12 | ; Part A | |
| | ; Part B other (specify) | _; Biennial/Annual I | Reports | |
| | | | | |
| | endix A is intended to ass it official in determining | | | |
| | ng F-solvent wastes, if su | | | |
| by | the facility previously. | If you are concerned | that | |
| | olvent wastes may be misclendix A-1. To assist in i | | | $\setminus \emptyset$ |

| | • | Date: | J |
|---------|------------|--|----|
| | | ed F-solvents, Appendix A-2 presents a list of ng P and W vastes. Note concerns below: | |
| 2. | Die | oxin wastes | |
| | 4. | Does the handler report the generation of the following wastes? (The following industries may generate listed dioxin wastes: organic chemicals, pesticide or formulator.) | |
| F-solve | int I | (i) F020 - F023, F026 - F027 Yes No (ii) F028 Yes No BDAT standards are presented as Appendix B] | |
| 3. | Cal | lifornia Vaste Identification | |
| | a • | Does the facility handle any of the following vastes? | |
| | | (1) D002 (11) D004 - D011 D005 D008 Lab pack items Poss the generator herdle any herordous vestes | |
| | b. | characterized by high concentrations of halo- genated organic constituents (HOCs), metals, or cyanides?YesNo | |
| Califor | rnia | viste standerde ere presented as Appendix C] | |
| | c. | Is the generator handling any of the F, K, P, or U wastes subject to the "soft hammer" that may qualify as California wastes due to HOC, metals, or cyanide content? See Appendix D for a listing of California constituents likely to be found by waste code. | |
| | d. | Has the generator conducted the paint filter test (Method 9095) [\$268.32(1)]? Yes No* | |
| | e. | Has the generator conducted any testing of these hazardous vastes to determine whether the concentrations qualify the hazardous vastes as California wastes? Yes No | |
| | | If no, has the generator retained records docu- menting his "applied knowledge" that the | NA |

Handler Name: ID Number:

Comments

 $\stackrel{\text{\tiny --}}{-}$ A potential violation is indicated

GEN-2

| | · . | | ID Number: Inspector: Date: | |
|----|-----|--|-----------------------------|-----------|
| | | | | Comments |
| | | If "no" is answered to both parts of this question, & violation is indicated. [§268 | | NIA |
| | | Describe the nature of the records: | | 1 |
| | f. | Source of the above: Form 8700-12;; ; Part B; Biennial/Annual Report other (specify) | Part A | |
| 4. | Fir | st Third Waste Identification | | |
| | 4. | Does the generator handle any of the wast- listed as First Third Wastes in \$268.10? Appendix E for listing. List First Third Wastes handled by the generator here: | See | |
| | | | | 1, |
| | b. | Does the generator handle any soft-hammer vestes (Appendices D-1, D-2, and F)? If list those vastes: U-188 phenol | 2 0, | |
| | c. | Are any of the soft-hammered wastes California vastes (see Appendix G)? Yes | ornia No | |
| | | If yes, the wastes must meet BDAT standar prior to disposal. | ds | |
| | d. | Has the Regional Administrator received demonstrations/certifications for all sof hammered wastes to be land disposed [§268.8(a)(2)]? Yes | t No* | NIA |
| | •. | Source of the above: Form 8700-12; ; Part B; Biennial/Annual Report other (specify). | | |
| | | eatability Group - Treatment Standards | | |
| 1. | dif | s the generator mix restricted wastes with ferent treatment standards for constituent cern? Yes | s of | |
| 2. | tre | yes, did the generator select the most str atment standard for the constituent of con 68.41(b)]? | | \bigvee |

* A potential violation is indicated

В.

GEN-3

| | 1. | ID Number | · : |
|------------|------------|--|---------------------------|
| | | Inspector | |
| | | Date: | |
| | | | |
| | | | |
| | | | |
| , | 17 (| Solvents | |
| ٠, | r | 201AGUCA - > | |
| | _ | 011 the secondary | |
| | a . | | |
| | | appropriate treatability group [\$268.41] of the | |
| | | vaste (e.g., vastevaters containing solvents, | |
| | | nonvastevater (i.e., < 1% TOC), pharmaceutical | |
| | | vastevaters containing spent methylene | |
| | | chloride, all other spent solvent wastes)? | |
| | | YesNo* | |
| | | | |
| 4. | Ça] | lifornia Vastes | |
| | | | |
| | a. | Did the generator correctly determine the | |
| | | distinction between liquid hazardous vastes and | |
| | | non-liquid hazardous vastes that contain HOCs | |
| | | in concentrations greater than 1,000 mg/kg | |
| | | [426R 32/h)12 | |
| | | | |
| | | <u> </u> | |
| 5 . | Pir | rst Third Vastes | |
| • | • • • | | |
| | a . | Did the generator ascertain whether restricted | |
| | ٠. | vastes were appropriately assigned vastewater | |
| | | | |
| | | or nonvastevater designations (nonvastevaters | |
| | | are > 1% TOC and > 1% suspended solids) | |
| | | [\$268.7(z)]? | |
| | | | |
| | | | |
| | | | |
| | ь. | Does the facility handle KO61 wastes? Yes VNo | |
| | | Yes _VNo | |
| | | | |
| | | If yes, were nonwastewaters appropriately | |
| | | classified in either the high or low zinc | |
| | | subcategories (≥15% Zn) [\$268.7(a)] | n1/n |
| | | subcategories (≥15% Zn) [\$268.7(a)] [\$268.41(a)]?YesNo* | 10117 |
| | | | |
| | | | |
| | c. | Does the facility handle K101 or K102 wastes? | |
| | | Yes √ No | |
| | | | |
| | | If yes, were nonvastewaters appropriately | |
| | | classified in either the high or low arsenic | |
| | | 1 | 11. |
| | | subcategories [5268./(a)] [5268.41(a)]?YesNo* | \mathcal{N}/\mathcal{A} |
| | | esm- | 1 |
| | | | |
| | | To there any resect to hallows that the sen | |
| | a. | Is there any reason to believe that the gen- | |
| | | erator may have diluted the waste to change the | |
| | | applicable treatment standard (based on review | |
| | | of process operation, pipe routing, point of | |
| | | sampling)? Yes ✓ No | |

Handler Name:

Comments

N/A

 $\stackrel{{\scriptscriptstyle \mathsf{--}}}{\mathrel{--}}$ A potential violation is indicated

GEN-4

| | • . | | . 1 | Handler Name: ID Number: Inspector: Date: | |
|-----|------|---------------|--|---|-----------|
| | | | | | Comments |
| Vas | te A | ralysi | <u>.</u> | | |
| 1. | | | enerator determine whether the waste reatment standards based on \$268.7(a): | 1 | ALLA |
| | ٠. | Knovl | edge of vastesYes | _No | N/4 |
| | | (i) | List vastes for which "applied knowled was used: | edge* | |
| | | | | | |
| | b. | TCLP | Yes | No | |
| | | (i) | List vastes for which "TCLP" was use | d: | |
| | | (ii) | Appendix D lists wastes for which tr ment standards are expressed as conc trations in waste extract. Were any wastes handled by the generator subj to waste extract standards not teste using the TCLP? Yes | en- ect | |
| | | | If yes, list: | | |
| | c. | Total | veste analysis Yes | No | |
| | d. | | les vere retained, describe content a of applied knowledge determination: | nd | |
| | | | termined by TCLP or total constituent | | |
| | | | sis, provide date of last test, frequesting, and attach test results. | ency | |
| | | Dates | /frequency: 5/33/86 plan to | Lest streams. | this year |
| | | Note tests | which wastes were subjected to which | | |
| | | | | | |
| | | varis | any problems (e.g., inadequate analysition of waste composition/generation ed knowledge) | is, for | NIA |

-/ A potential violation is indicated

c.

GEN-5

| | | • . | | Handler Nam ID Number: Inspector: Date: | |
|--------------|-------|------|--|--|---|
| | | | | | Comments |
| | | e. | Were wagtes tested using TCLP or total contuent analysis when a process or wastestre changed [\$264.13(a)(3)(i) or \$265.13(a)(3) Yes | am (i)]? | N/A |
| | 2. | abi | the restricted vastes exceed applicable traility group treatment standards upon generat 68.7(a)(1)]? | eat- ion | |
| | | Lis | t those that exceeded standards: | | |
| | | Lis | t those that did not exceed standards: | | |
| | 3. | res | the generator dilute the vaste or the trea idual so as to substitute for adequate trea 68.3] | tment | |
| D. | Man | agen | enc | | |
| | 1. | 0ns | ite management | | |
| | | ٠. | Were restricted vastes managed onsite?Yes | <u>/</u> No | |
| | | | If no, go to "2". | | 1.7 |
| | | b. | For vastes that exceed treatment standards treatment in regulated units, storage for greater than 90 days, and/or disposal conducted? | No | |
| | | | If yes, TSDF checklist must be completed. | | |
| | 2. | Off | site Hanagement | | |
| | | 4. | If restricted wastes exceed treatment stan ards, did generator provide treatment faci notification with each shipment? [268.7(a) | lity (1)]: | |
| | | | (i) EPA Hazardous Waste Number? Ves | No* | |
| | | | (ii) Corresponding treatment standard?Yes \ | _No* | facility has been shipping tolvene wask as bool which shock |
| | | | (iii) Manifest number? | | has been classified |
| | | | (iv) Waste analysis, if available? Yes | No | as poss with land |
| | | | | | bon notification |
| | | | | | Manifosts NOTA 030Xe13 |
| : / , | A pot | enti | al violation is indicated | | 11 044 75 |
| | | | GEN-6 | | attached. |

| • . | | * | Handler Name: ID Number: Inspector: Date: | | | |
|-----|--|--|--|--------------|--------------|----------------------------|
| | | | C 1 | 4 - 4 | | Comments |
| Ide | ntify CNM- | offsite treatment facilities Emethic, Alabama Rellins | Env. Bride | 1 - Chica | P 1 | |
| b. | stand | stricted wastes do not exc ards, did generator provid- ity with a notice and cert ding: | e the disp | osal | | |
| | (i) | EPA hazardous vaste I.D. | number? Yes | #J No* | A | to of not |
| | (ii) | Corresponding treatment s | tandard? Yes | _No* | 1 gard | Pan poticos |
| | (111) | Manifest number | Yes | No* | at . | Les buses |
| | (111) | Certification regarding weets treatment standards | | hat it | Sheet _ rest | . / LL \ .!/ LN |
| | | land disposal facilities r ified wastes | eceiving t | he | not | N/A |
| c. | case exemp Appon natio recor | e generator's vaste is sub by case exemption, a §268. tion, or a nationwide vari dix E for restricted vaste nwide variances), does the ds indicate that he or she waste shipment [§268.7(a)(| 6 "no migr ance (see s subject generator submits v | ation" to | | |
| | (1) | EPA Hazardous Vaste Numbe | r? Yes | No* | | |
| | (ii) | Corresponding Treatment S | tandards? | No* | | |
| | (111) | All applicable prohibition | ns? Yes | No* | | |
| | (iv) | The manifest number? | Yes | No* | | |
| | (v) | The date the wastes are s prohibitions? | ubject to Yes | No* | | · |
| | (vi) | Does generator keep recornotifications/certificati | | 0 | | |

| | | Handler Name ID Number: Inspector: Date: | ** |
|---------------|--|--|--------------------|
| | all prohibited wastes for which recor ot provided per above [§268.7(a)(b): | ds | Comments Ni / A |
| | ify TSDFs receiving any prohibited wa ct to any exemptions and variances: | stes | |
| does vaste | ndler generates a "soft hammer" waste the generator send with each "soft ha shipment to a TSDF and retain copies ice that includes [268.7(a)(4)]: | mmer" | |
| The E | PA Hazardous Waste Number? $\sqrt{	ext{Yes}}$ | No* | |
| Appli | cable prohibitions?Yes } | ✓ No* | |
| The ma | anifest number?Yes | No* | |
| Vaste | analysis data, where available? | No | |
| (i) | Do the generator's records indicate any soft-hammer wastes are destined disposed in a landfill or surface impoundment [\$268.33(f)]? Yes | for | |
| | If yes, list facility of destination waste of concern [\$268.8(a)(2)] | and | J/A |
| (11) | Has the generator submitted demonstrations and certifications for each "soft-hammered" waste destined to be disposed in landfill or surface important to the Regional Administrator to the shipment of waste to the TSD [\$268.7(a)(2)]? | e ound- prior | |
| (iii) | Has the generator retained a copy of demonstration on site [§268.8(a)(3)- | | |

 $\stackrel{\bullet}{=}$ A potential violation is indicated

GEN-8

 Π

(iv) Has the generator retained copies of all \$268.8 certifications sent to the TSDF [\$268.7(a)(6)] Yes No*

| | • . • | Inspe Date: | ctor: 🗌 |
|--------------|--------------------|---|---------|
| | (v) | Did-the generator submit the demonstration to the receiving facility upon the intial shipment of the waste [§268.8(a)(3)-(a)(4)]?YesNo* | Λ |
| | (vi) | If the Region 1 Administrator has invalidated the certification, has the generator ceased shipment of the vaste and do records indicate that the generator has informed all receiving facilities of the invalidation [§268.8(b)(3)]? Yes No* | |
| Stor | age of Pr | ohibited Vaste | |
| | days? If yes, v | ibited wastes stored for greater than 90 Yes No as facility operating as a TSD under tatus or final permit [\$262.34(b)]? Yes No | |
| | Tf ves T | SDF Checklist must be completed. | |
| Trea (i.e | tment Usi | ng RCRA 264/265 Exempt Units or Processes s, furnaces, distillation units, vaste- ent tanks, etc.) | |
| | | · · · · · | |
| | | tment residuals generated from RCRA xempt units or processes? Yes No | |
| | If yes, l | ist type of treatment unit and processes | |
| | | <u> </u> | |
| | | | . , |

If yes, TSDF checklist must be completed.

Handler Name:

Comments

 $\stackrel{{\blue}{\scriptscriptstyle{\sim}}}{^{\prime}}$ A potential violation is indicated

GEN-9

-11

- Mongredge 4844 - Albert State - State - 1994 1401 - District Le NJA 0326137

F.

77 S 1 772 6

LAWRENMENTAL SERVICES

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NJ 005 288239 1809) 407-2100

PROFERENCE CARMED, NOS, PARRICUE

001TT04340F DOOL

TOLORE - WATER MINTORE, 70-80% TOLLERE

HALLINE ROF No. L-10800

The second secon

THE MARTIEUL. AVOID PROJECTS CONTINUT WITH SEMIN INTRICATION ! POR SENING THAT FOR IS PRINCIPLE.

MISO BALAN

Chro do-

092887

Ken Williams

Ken Willing

09288

Ite. TIL, I In HAIRR, Don

State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Manifest Section CN 028, Trenton, NJ 08625 or use on elite (12-pitch) typewriter.)

| type or print in block letters. (Form designed | d for use on elite (12-pitch) typew | i II. (g. 1 .) Grandstandstandskapen i Some Kanton Systemation | on Williams and the second | | | 5-2050 (| Shaded areas |
|--|---|--|--|-------------|---------------------------------------|----------------------|--|
| UNIFORM HAZARDOUS WASTE MANIFEST | 1 Generators US EPA (D.N.) | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | Mainfest ocument No | 2 Pag of | i jas not Liavi | requir | en by Federa |
| Generator's Name and Mailing Address | | and the second s | The Art of the same of the sam | A Sta | nte Manifest Doo | D / 1 | 1755 |
| | | | | 13. S∷ | Generator's | | 1 100 |
| Generator's Phone () | | | | | | | |
| Transporter 1 Company Name | 6 | US EPA ID No | | C St | ata Trans. ID | | |
| Transporter 2 Company Name | | US EPA ID Nu | | D Tra | insporta s Phon | e (| |
| | 1111 | | | E. Sta | ite Trans ID | · — - — - | |
| Designated Facility Name and Site Add ドクシングルン というかいかい | | US EPA ID Nu | nber | - T | insporter's Phon | - (| 1 |
| The second of th | | | | | insporter's Phon ate Facility's ID | e (| |
| REMARKERS MARKER | RILL WILLDY | | | H. Fa | | /) / | 1. 2.1. 2 |
| US DOT Description (Including Proper Ship) | | | 12. Cc | Type | 1.1 Total | 14 Unit Wt/Vol | l. Waste No. |
| X WASK CLAMBARS | CICADINES, | R. Mary Go | i e | | | | |
| 10000, UN 199 | 13 (RQ) | • | 1 | 177 | | ا کی | DO 0 |
| | | | | | <u> </u> | _ | |
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| | | | <i>i.</i> | | | | |
| | | 15 | e - | | | | |
| | | 11- | _ | | | | |
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| | | -7 | -1 1 | | | | 1 1 1 |
| Additional Descriptions for Materials Lis LUASTE TOWERE-WATER M | ted Above | 1-6/0006 | _,tt. | K. Ha | ndling Codes for | Wastes Li | sted Above |
| WISIE TRUEACTIONIEZ IN | c. | THE STATE OF | | a. | | c. | |
| | | <i>,</i> | | | | | |
| ROLLING REF No. L-1 | C 800 d. | | | b. | | d. | |
| Special Handling Instructions and Additional Management of the Company of the Com | 1012 PERCALCIETA | CAZZACT Z | UM 1 | Klide | William 13 | rate | Parjore |
| TO FRESH AIR. SLIN | É EYES? FLUMA O | 1871 1463 | 11 06 | WAT | TI FI. | 5 10 | W1773 |
| | | | ` | | | , | · |
| GENERATOR'S CERTIFICATION: I hereb proper shipping name and are classified, pa | cked, marked, and labeled, and are | | | | | | |
| according to applicable international and na If I am a large quantity generator, I certify th | • | ice the volume as | of toxicity of | waste ne | nerated to the de | oree Lhav | e determined to b |
| in the little settle don't title delicities, the ettile to | ected the practicable method of trea | tment, storage, or | r disposal cu | rrently av | ariable to me whi | ch minimi | tes the present an |
| economically practicable and that I have sele | | | made a gene | faith efto | at to minimusa my | | neration and selec |
| economically practicable and that I have sels future threat to human health and the enviro the best waste management method that is | available to me and that I can affo | rd. | | | | | |
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| economically practicable and that I have sele future threat to human health and the environment health and the environment health and the environment health and that is Printed/Typed Name 7. Transporter 1 Acknowledgement of Received/Typed Name | available to me and that I can affo Sign | rd. | | | int to minimize my | | Month Day Y |
| economically practicable and that I have selecture threat to human health and the environthe best waste management method that is Printed/Typed Name 7. Transporter 1 Acknowledgement of Received Printed/Typed Name | available to me and that I can affo Sign sipt of Materials Sign | ature | | | of to minimize my | | Month Day Yo |
| economically practicable and that I have sele future threat to human health and the environment health and the environment health and the environment health and that is Printed/Typed Name 7. Transporter 1 Acknowledgement of Received/Typed Name | experience of Materials Sign Sign Sign Sign Sign Sign Sign Sign | ature | | | of to minimize m | | Month Day You OTOS & Month Day You OTO TE |
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| economically practicable and that I have sele future threat to human health and the environment best waste management method that is Printed/Typed Name 7. Transporter 1 Acknowledgement of Received Typed Name 8. Transporter 2 Acknowledgement of Received/Typed Name | experience of Materials Sign ature | | | et to minimize m | | Month Day Ye O 7 O S & Month Day Ye O 7 O 7 8 |

New Jersey Department of Environmental Protection Division of Hazardous Waste Management Twin Tives Protessional Building



2 BABCOCK PL. W.ORANGE, N.J. 07052 NOTICE OF VIOLATION 669-396

NAME OF OPERATOR CELSO BALAN - TECHNICAL SERVICE SUPERVISOR

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION OF VIOLATION N.J.A.C., 7.26-9.4(d) 4v: EVERY CONTAINER SHILL BE ARRANGED SO THAT ITS TDENTIFICATION LABEL IS VISIBLE. 7.26-9.4(d) 5: FAILING TO INSPECT HAZARDOUS WASTE CONTAINER STORAGE AREAS DAILY.
7.26-9.6(e): FAILING TO MAINTAIN PROPER HISLE SPACE (18") TO PROVIDE UNDESTRUCTED MOVEMENT TO PERSONNEL & EQUIPMENT. 7.26-9.4(g) 6: JOB TITLE FOR EACH POSITION AT FACILITY RELATED TO HAZARDOUS WASTE MANAGEMENT, AND NAME OF EMPLOYEE IN POSITION.

Remedial action to correct these violations must be initiated immediately and be completed by

shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

N.J.D.E.P. EMERGENCY
HOTLINE (609) 292-7172
R.C.R.A. ADVISEMENT

PROGRAM (609) 292 - 8341

Division of Hazardous Waste Management
Department of Environmental Protection



New Jersey Department of Environmental Protection
Division of Hazardous Waste Management
Twin Rivers Professional Building
—Seet Windsor, N.J. 09520

2 BNBCOCKPL, W.ORANGE, N.J. 07052

NOTICE OF VIOLATION

669 - 3960

| ID NO | NTD 002 | 444933 | _ | DATE 11/29 | 89 | |
|--------------------------------------|---|---|--|--|--|--|
| NAME | OF FACILITY _ | MONSAN | To co. | | | |
| LOCA | TION OF FACILIT | Y PEN | ONZYLVAK | IA AVE. | KEARNY, | N.J. 07032 |
| NAME | OF OPERATOR | CET29 | Balan – | TECHNICAL | SERVICE S | NIJ, 07032 Sofervisor |
| violat 7:26- | ion(s) of the So 1 et seq.) prom | olid Waste Mar oulgated there | nagement Act, under and/or | (N.J.S.A. 13:1E the Spill Comp | -1 et seq.) and l ensation and C | ve date, the following Regulations (N.J.A.C. ontrol Act, (N.J.S.A. under were observed. |
| These | DESCRIPTION | OF VIÓLATION | N.J.A.C. | 7,26-9,) RELATED | 4(g)611: | WRITTEN JOB 2005 WASTE |
| | | | | | CP PLAN. | - NAMES, ADDRES |
| shall s you h violati ating | submit in writing have taken to at ion has occurred | 1989, to the investing tain compliant and does not trative or legal | Within fifteer gator issuing the ce. The issual preclude the Staction, or from | i (15) days of re is notice at the a nce of this docu State of New Je om assessing per | eceipt of this No above address, the ument serves as rsey, or any of nalties, with res | ntice of Violation, you he corrective measures notice to you that a lits agencies from initispect to this or other |
| HOT R.C.R.H | .P. EMERGE LINE (609) A. ADVISEME DGRAM (609) | 1292-717 DT | | | lazardous Waste Me t of Environmental Pr | hagement rotection |

HWM-004A

New Jersey Department of Environmental Protection Division of Hazardous Waste Management

s Professional Bullding

2 Babcack Place

West orange, N.T. 07052

NOTICE OF VIOLATION

| ID NO. NJD0034444 | 333 DATE 1 9 90 |
|-------------------|--|
| NAME OF FACILITY | Monson to Chemical Company |
| | Pennsylvania Arome, Kearny, N.J. 07032 |
| NAME OF OPERATOR | Mr Celso Balan |

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

| DESCRIPTION OF VIOLATION 7:36 7.4 (a) 4 vii Facility failed to |
|--|
| provide on manifests (NJA#0326137, NJA#0414755) |
| the proper waste type (1705) for a weste which |
| is 70% towers. Facility has been classifing this waste as book |
| 7:26-9.3(a) 1 Facility did store hazardous waste |
| in excess of 90 days (2-55 gal drums waste oil/speed |
| X776, and 1-53 gal dam maleic anhydride U147). |
| Trought of the contract of the |

Remedial action to correct these violations must be initiated immediately and be completed by

January 34, 1990. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

Division of Hazardous Waiste Managemen

Form DWM-005 2/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT BUREAU OF FIELD OPERATIONS

ENFORCEMENT REFERRAL

| TO YACOUB E, YACOUB HOTOUGH JETF STERLING | DATE 1990 |
|--|--------------------------------------|
| FROM: DAN BURGOUNE | REGION: METRO |
| RE: MONSANTO CO. NJD 002444933 | PENNSYLVANIA AVE, |
| Mame of Facility. 10 Number KEARNY | HODSON |
| 0,002 | MR, CELSO BALAN |
| The attached inspection/investigation report(s) dated 1/29/89 it is recommended a be issued for violations | |
| 9.60 - FAILING TO PROVIDE PROPER AISL. 9.4961 - NAME OF EMPLOYEE AND JOE TITLE, FOR STATE OF THE PROPER AISL. 9.49611 - WRITTEN TOO DESCRIPTION FOR EVER | NUS OF HARARDOUS WASTE STORAGE AREA. |
| NJSA 58:10- | , |
| Suggested penalty: | |
| Novo Case should not be closed yot. Compliance Vinchest on 2/6/40 (for by Dan Burgorn. Herefore, A For Hermanders | |
| AS 2/1/40 | |

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO MFO File through Jeff Sterling AS DATE 1/11/90 FROM Dan Buzzagne SUBJECT Monsanto Chemical Company Follow- Up Inspection of 1/9/90

A fellow - up inspection was conducted at the subject facility to deprime compliance with drum strange violations cited on the 11/29/89 initial inspection (7:26-9.4 (0)4V,

7:76-9.4(D)5, 7:26-9.6(e)). Areas initially cited were corrected concerning labels being visible

for inspection, a daily inspection log was kept for own storage area, and adequate aishe space between containers (1811) was mintained. Three downs however were fand to have

accomulation start dates in excess of 90 days (1 -55 ga, drum mateix anyhoricko As bate 4/10/89, 2-55 gal drums waste

oi) dated 9/20/89). Am NOV was issued for this violation

7:96-9.3(a) 1 as well as for 7:26-7.4(a) 4 vii for

misclassification of toluene wiske on two maistosts NJA 0414755 and NJA 0326137. The waste type should be classified as FOOS but was classified by the facility as DOOI. All other follow-up corrective action was sitemitted

by the facility on 17/11/89, therefore compliance was achieved for all citations issued on the 11/79/89 initial inspection indicated below. Compliance for Nov's issued on 1/9/90 is set for 1/24/90, 7:26-7.4 (a) 4vii. etallonis HPV.

Areas of Compliance

7:36-94 (d)4v 7:36-4.6(e) 7:36-9.4(g)611 11-9.4 (d)5 11-9.4(g)61 11-9.7(f)

New Citations Tossel (19/40) 7.26-7.4(a) 4 vii

7:26-9.3(a)1

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO MFO File through Jeff Starling DATE 1/19/90

FROM Dan Aurgagne

SUBJECT Mansanto Chanical Company Follow- Up Inspection of 1/9/90

Addlendum- As per my conversation with Richard Johnson of BH WRF C the facility should be advised to classify their prenol waste type as C377 and not Dood 10/188 since prenol is a constituent of the waste. I also informed the calso Balan of monsanto to classify the machine shop oil as X786 and not X785. I should only be used

male 1/14/90.

for oil spill cloan-ups, the call was

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO MFO File #09-07-37 thru Jett Starting DATE ____ 2/1/40

SUBJECT Monsanto Company, Pennsylvania Are Kourny Follow Up Insp. 2-16/2.

The subject facility has complian with citations issued on the 1/4/40 follow-up inspection. A letter was submitted by Constantino Barriel addressing NTAC 7.4 (4)47:1 as to prefer waste classification, and the 3 drums (55791) Stored in excess of 90 days were found to be removed no additional hazandors waste stored at this time. Copies of the manifests for the two shipmants (NTA 0642059) of NTA 8642068) are attached. We further enforcement action required at this time.

NTAL 7:26-7.4(a) 4 vii
7:26-9.3(a) 1

Monsanto Company Pennsylvania Avenue Kearny, New Jersey 07032 Phone: (201) 589-0350

January 10, 1990

Mr. Daniel Burgoyne NJDEP-Hazardous Waste Management 2 Babcock Place West Orange, N.J. 07052

RE: Description of Violation:
7:26-7.4(a) 4VII--A generator must provide the following information on the manifest form:
The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same.

Manifest # NJA-0326137 Dated 9/28/87 # NJA-0414755 Dated 7/5/88 Violation Dated 1/9/90

Dear Mr. Burgoyne:

The facility will provide the proper waste type (F005) for a waste which contains 70% Toluene (Spent Toluene Mixture). The facility has been classifying this waste as D001. The corrective measure will take place immediately. The proper hazardous waste information will be provided on the manifest form.

Should questions arise concerning this matter, feel free to contact me at (201) 578-8060.

Sincerely,

Constantino J. Barrial Environmental Engineer Report run on: August 1, 2014 - 12:27 PM Version 5.0

User Selection Criteria

Location:

New Jersey, all activities

Activity Location:

None Chosen

Handler ID:

NJD002444933

None Chosen

Group of IDs:

None Chosen

Handler Name:

Handler Universe:

All Facilities Regardless of Universe

Determined Date Range: From: 10/01/1980 To: 08/01/2014

Location County Code: None Chosen

Evaluation Type:

Location City:

Focus Area:

Location Zip Code:

Violation Type:

State District:

Sort Order:

Region, State, Handler Name

Display Universes:

Display Code Descrip.: Yes

Results

Data meeting the criteria you selected follows.

Total Pages:7

Total Handlers:1

Report Description

This report presents available information from the Resource Conservation and Recovery Act Information System (RCRAInfo) about compliance evaluations, violations, and enforcement actions meeting the criteria supplied by the user. Evaluations showing no violations does not always indicate that no violations were determined. Violation without enforcement actions does not always mean no enforcement action will be issued. In order to avoid releasing enforcement sensitive information to the public the following information is not shown on the report: pending civil / judicial referrals, criminal actions and referrals, and State to EPA referrals; all other enforcement actions are released.

Report Information

Name:

cme foia.rdf

Developed by:

EPA Headquarters, Office of Enforcement and Compliance Assurance

Deployed: Last Updated: June 2006 May 2012

Contact:

rcrainfo.help@epa.gov

Tables Used:

cmecomp3, ccitation3, hreport univ5, lu citation, lu state, hid groups

Libraries:

Report run on: August 1, 2014 - 12:27 PM

| MONSANTO CO | | County Na | me / Code: HUD | SON / NJ017 | | NJD00244493 |
|--|--|--|----------------------------------|--|--|--|
| ocation: 1 PENNSYLVANIA AVE; KE | ARNY, NJ 07032 | | | | | REGION 02 |
| Mailing: 1 PENNSYLVANIA AVE; KE | ARNY, NJ 07032 | | | | | |
| ctivity Location: NJ | State District: NORTHERN | Accessibility: | N | on-Notifier: | Extract Flag: Y | Active Site: N |
| Senerator: N Short-Term Gen: N Full Enforcement: | Transporter: N Transfer Facility: N Converter: | Operating TSDF: Offsite Receiver: State Unaddressed S State Addressed SN | | IC In Place: HSM: EPA Unaddressed SNC: | N S | I Indicator (HE / GW)N / N Subpart K: |
| CA Wrkld: N Active State Gen: N | State TSDF: | State SNC w/Comp S | | EPA Addressed SNC: EPA SNC w/Comp Sche | N ed: N | |
| Violation: Activity Location: NJ Scheduled Compliance Date: 01/2 | • • | etermined Date: 01/09/1990 Il Compliance Date: 02/06/19 | Determin | ned by Agency: State RTC Oualifier: OBSERV | Respor | nsible Agency: State Sequence Number: 6 |
| FCI Evaluation 01/09/1990 Citizen Complaint: NO | Activity Location: NJ Multimedia Inspection: NO | By: State lo Sampling: NO | lentifier: 006 Not Subtitle | Person: R2DEP C: NO Day Zero: | Branch: | Found Violation: YES Focus Area: V3 |
| Enforcement: Activity Location Docket: CA Component: N | · · · | 120 ncy: State | | 09/1990 e Person: R2DEP Initiated: | Identifier: 006 Branch: | peal Resolved: |
| and a property of the second s | and the second s | The state plays of the state of | | and the state of t | ernombilitation variation (Constitution of the Constitution of the | Financial State (Control of the Control of the Cont |
| Violation: Activity Location: NJ Scheduled Compliance Date: 01/2 | | etermined Date: 01/09/1990 al Compliance Date: 02/06/19 | | ned by Agency: State RTC Qualifier: OBSERV | • | nsible Agency: State Sequence Number: 7 |
| FCI Evaluation 01/09/1990 Citizen Complaint: NO | Activity Location: NJ Multimedia Inspection: NO | By; State lo Sampling: NO | lentifier: 006 Not Subtitle | Person: R2DEP C: NO Day Zero: | Branch: | Found Violation: YES Focus Area: V3 |
| Enforcement: Activity Location Docket: | .,, | 120 / | Action Date: 01/0 Responsible | 09/1990 e Person: R2DEP | Identifier: 006 Branch: | Billion (1997). And the Commission of the Commis |
| CA Component: N | Disposition Status: | | Appeal | Initiated: | Ар | peal Resolved: |
| Violation: Activity Location: NJ Scheduled Compliance Date: 01/1 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | etermined Date: 12/15/1989 al Compliance Date: 01/12/19 | | ned by Agency: State RTC Qualifier: OBSERV | | sible Agency: State Sequence Number: 5 |
| FCI Evaluation 12/15/1989 Citizen Complaint: NO | Activity Location: NJ Multimedia Inspection: NO | By: State Id Sampling: NO | lentifier: 004 Not Subtitle | Person: R2DEP C: NO Day Zero: | Branch: | Found Violation: YES Focus Area: V3 |
| Enforcement: Activity Location Docket: | | 120 / ncy: State | Action Date: 12/1 Responsible | 5/1989 e Person: R2DEP | Identifier: 005 Branch: | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| CA Component: N | Disposition Status: | | Appeal | Initiated: | Ap | peal Resolved: |
| Violation: Activity Location: NJ Scheduled Compliance Date: 12/ | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | etermined Date: 11/29/1989 of Compliance Date: 01/09/19 | | ned by Agency: State RTC Qualifier: OBSERV | | sible Agency: State Sequence Number; 1 |
| CEI Evaluation 11/29/1989 Citizen Complaint: NO | Activity Location: NJ Multimedia Inspection: NO | By: State Id Sampling: NO | dentifier: 002 Not Subtitle | Person: R2DEP C: NO Day Zero: | Branch: | Found Violation: YES Focus Area: |

^{*} Note: Penalty amount may not reflect all violations cited.

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| Enforcement: Docket: | Activity Location: | NJ | Type: | 310 icy: EPA | | te: 08/07/199 ponsible Pers | = | | ier: 001 nch: | |
|--|---|--|---------------------------|---------------------------|--|--|-----------------------------------|--|---|--|
| | nformation: Propos | ed: \$9.499 | | ary: \$9,499 | Collected: | PO1101D10 1 010 | Total Final: | | | |
| CA Compo | | | on Status: | | | Appeal Initiate | | | Appe | al Resolved: |
| Enforcement: | Activity Location: | NJ | Type: | 120 | Action Da | te: 11/29/198 | 9 | Identi | fier: 002 | |
| Docket: | | | Ager | ıcy: State | Res | ponsible Pers | on: R2DEP | Bra | nch: | |
| CA Compo | onent: N | Dispositi | on Status: | | | Appeal Initiate | ed: | | Appe | al Resolved: |
| ation: Activity | Location: NJ | Type: 268.A | De | termined Date: 11/29 | /1989 I | etermined by | Agency: State | ANTARA SA MARINE SAN COMMISSION OF THE SAN C | Responsib | ole Agency: State |
| Scheduled Comp | pliance Date: 08/07/ | 1990 | Actual | Compliance Date: 0 | 9/10/1990 | RT | C Qualifier: OB | SERVED | Se | quence Number: 2 |
| CEI Evaluation | 11/29/1989 | Activity Location: | NJ E | By: State | Identifier: | 002 | Person: R2DEI | P Branch | : | Found Violation: YE |
| Citizen Cor | mplaint: NO | Multimedia Inspe | ection: NO | Sampling: NO | Not: | Subtitle C: NO |) Day | Zero: | | Focus Area: |
| Enforcement: | Activity Location: | NJ | Type: | 310 | Action Da | te: 08/07/199 | 0 | Identit | ier: 001 | A) A |
| Docket: | | | Ager | icy: EPA | Res | ponsible Pers | on: R2JCS | Bra | nch: | |
| Penalty In | formation: Propos | | | ary: \$9,499 | Collected: | | Total Final: S | 9 499 | | |
| CA Compo | | • | on Status: | | | Appeal Initiate | | | | al Resolved: |
| | Activity Location: | NJ | Type: | | | te: 03/19/199 | | | ier: 003 | |
| Docket: | C | | | ncy: EPA | | ponsible Pers | | | nch: | • |
| CA Compo | nformation: Propos | | Final Monet on Status: | ary: \$9,499 | Collected: | Appeal Initiate | Total Final: \$ | 9,499 | A | al Resolved; |
| CA Compo | ment. N | Dispositi | on Status. | | , | трреаг плаасе | u. | | Appea | ai resoived. |
| ation: Activity | Location: NJ | Type: 262.B | De | termined Date: 11/29 | /1989 [| etermined by | Agency: State | | Responsib | le Agency: State |
| Scheduled Comp | pliance Date: 12/14/ | 1989 | Actual | Compliance Date: 0 | 1/09/1990 | RT | C Qualifier: OB | SERVED | Se | quence Number: 3 |
| CEI Evaluation | 11/29/1989 | Activity Location: | NJ E | By: State | Identifier: | 002 I | Person: R2DEF | P Branch | : | Found Violation: YE |
| Citizen Cor | mplaint: NO | Multimedia Inspe | ection: NO | Sampling: NO |) Not | Subtitle C: NO |) Day | Zero: | | Focus Area: |
| Enforcement: | Activity Location: | N.I | Type: | 120 | Action De | te: 11/29/198 | Q | Identif | ier: 002 | |
| | Activity Location. | 110 | , , | icy: State | | ponsible Pers | = | Brai | | |
| Docket: | | | | | | | | | | al Resolved: |
| Docket: CA Compo | onent; N | Dispositi | on Status: | • | | Appeal Initiate | d: | | Abbea | |
| CA Compo | onent: N | Dispositi | on Status: | | | Appeal Initiate | d: | | Арреа | |
| | ······································ | Dispositi | on Status: | | ANN SERVICE STREET, STREET TOTAL VAN VAN | Appeal Initiate | d: | V 1, 10, 1 5, 11110ghint Administra | Appea | Mark Warrant and the temperature of the state of the stat |
| CA Compo | /iolations: | Dispositi Activity Location: | | By: State | ldentifier: | antinae in a steachtum teachannach i chair | ed: Person: NJTB | Branch: | en uto contra? The terroria handwidde a | Found Violation: NO |
| CA Compositions With No V | /iolations: | | NJ E | By: State Sampling: NC | ldentifier: | antinae in a steachtum teachannach i chair | Person: NJTB | Branch: | en uto contra? The terroria handwidde a | Found Violation: NO Focus Area: |
| CA Compositions With No V | /iolations: 12/13/1996 nplaint: NO | Activity Location: | NJ E | • | ldentifier: | 000 F Subtitle C: NO | Person: NJTB | | M | |
| CA Compositions With No Vicel Evaluation Citizen Cor | /iolations: 12/13/1996 nplaint: NO | Activity Location: Multimedia Inspe | NJ E | Sampling: NC By: EPA | ldentifier: Not t | 000 F Subtitle C: NO | Person: NJTB Day Person: R2 | Zero: | M | Focus Area: |
| CA Compositions With No Vicel Evaluation Citizen Cor | /iolations: 12/13/1996 nplaint: NO n 08/30/1990 nplaint: NO | Activity Location: Multimedia Inspe Activity Location: | NJ E | Sampling: NO | ldentifier: Not t | 000 F Subtitle C: NO 000 F Subtitle C: NO | Person: NJTB Day Person: R2 | Zero: Branch: Zero: | M RCB | Focus Area: Found Violation: NO |

^{*} Note: Penalty amount may not reflect all violations cited.

FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

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MONSANTO CO, NJD002444933, KEARNY, NJ, continued -

CSE Evaluation 01/09/1990 Citizen Complaint: NO Activity Location: NJ Multimedia Inspection: NO By: State Sampling: NO

Sampling: NO

Identifier: 003

Person: R2DEP Branch:
Day Zero:

Day Zero:

Found Violation: NO

Focus Area:

NRR Evaluation 01/09/1984 Citizen Complaint: NO Activity Location: NJ

Multimedia Inspection: NO

By: State

Identifier: 001 P

Not Subtitle C: NO

Person:

Branch:

Found Violation: NO

Focus Area:

Total Number of Handlers:

1

Total Number of Activity Locations:

1

^{*} End of Report *

^{*} Note: Penalty amount may not reflect all violations cited.

Description of codes used on the report:

| Universes | Description of Universes |
|---------------------------|---|
| Generator | Indicates that the facility is a Large Quantity Generator (LQG), Small Quantity Generator (SQG), Conditionally Exempt Small Quantity Generator (CEG), or not a generator (N). |
| Transporter | Indicates that the facility Transports waste subject to RCRA regulations. ('Y' indicates that the facility is in this universe). |
| Operating TSDF | Indicates that the facility is a Treatment, Storage or Disposal facility subject to any type of enforcement. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment) |
| IC in Place | Indicates that the facility has institutional Controls in place. ('Y' indicates that the facility is in this universe). |
| El Indicator (HE / GW) | Indicates that the facility has controls in place for Environmental Indicators. HE - Human Exposures ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist) GW - Groundwater Release ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist) |
| Short-Term Gen | Indicates that the facility is a short term or one time event generator and not generating from ongoing processes. |
| Transfer Facility | Indicates that the facility transfers hazardous waste. |
| Offsite Receiver | Indicates that the facility, whether public or private, currently accepts hazardous waste from another site (site identified by a different EPA ID). |
| HSM | Indicates that the facility manages hazardous secondary material(s) (e.g. spent material, by-product or sludge) that when discarded, would be identified as hazardous waste. |
| Subpart K | Indicates that the facility has opted into the subpart K laboratory rule. It then specifies the type of facility (C - College or University; H - Teaching Hospital; N - Non-profit Research Institute; W - withdrawal from the rule) |
| Full Enforcement | Indicates that the facility is a Treatment, Storage or Disposal facility which is part of the Full Enforcement universe. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment) |
| CA Workload | Indicates that the facility is part of the Corrective Action Workload universe. ("Y" indicates that the facility is in this universe). |
| Active State Gen | Indicates that the facility is an Active State Generator. ('Y' indicates that the facility is in this universe). |
| Converter | Indicates that the facility is a Converter Treatment, Storage or Disposal facility. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment) |
| State TSDF | Indicates that the facility is a State Treatment, Storage or Disposal facility. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment) |
| State Unaddressed SNC | Indicates that the facility is a State Unaddressed Significant Non-Complier. ('Y' indicates that the facility is in this universe). |
| State Addressed SNC | Indicates that the facility is a State Addressed Significant Non-Complier. ("Y' indicates that the facility is in this universe). |
| State SNC w/ Compl. Sched | Indicates that the facility is a State Significant Non-Complier with a Compliance Schedule. ('Y' indicates that the facility is in this universe). |
| EPA Unaddressed SNC | Indicates that the facility is an EPA Unaddressed Significant Non-Complier. ('Y' indicates that the facility is in this universe). |
| EPA Addressed SNC | Indicates that the facility is an EPA Addressed Significant Non-Complier. ('Y' indicates that the facility is in this universe). |
| EPA SNC w/ Compl. Sched | Indicates that the facility is a EPA Significant Non-Complier with a Compliance Schedule. ("Y" indicates that the facility is in this universe). |

^{*} Note: Penalty amount may not reflect all violations cited.

FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

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Description of codes used on the report:

| | ILITY - indicates the reason why the handler is not accessible for normal RCRA tracking and (previously called Bankrupt Indicator): |
|------|---|
| Code | Description |
| В | indicates that the handler has filed for bankruptcy and bankruptcy litigation is in process. |
| С | indicates that all RCRA responsibilities for permitting/closure, corrective action, and compliance monitoring and enforcement at the facility have been formally transferred to the CERCLA program or state equivalent. |
| F | indicates that all responsible parties (owners/operators) for the handler have fled the country or are otherwise not available for prosecution. |
| L | indicates that the handler's case is tied up in litigation to the extent that further progress in achieving RCRA compliance through normal enforcement is not possible. |

| | ER - indicates that the handler has been identified through a source other than Notification and of conducting RCRA-regulated activities without proper authority: |
|------|--|
| Code | Description |
| E | indicates that the handler was initially a non-notifier, subsequently determined to be exempt from requirements to notify. |
| 0 | indicates that the handler is a former non-notifier. |
| Х | indicates that the handler is a non-notifier. |

| Violation Type | Description | |
|----------------|-----------------------|--|
| 262.A | GENERATORS - GENERAL | |
| 262.B | GENERATORS - MANIFEST | |
| 268.A | LDR - GENERAL | |

| Evaluation Type | Type Description | |
|-----------------|--|--|
| CEI | COMPLIANCE EVALUATION INSPECTION ON-SITE | |
| CSE | COMPLIANCE SCHEDULE EVALUATION | |
| FCI | FOCUSED COMPLIANCE INSPECTION | |
| NRR | NON-FINANCIAL RECORD REVIEW | |

| Focus Area | ÷. | Description | de la companya de la |
|------------|-------|-----------------------|--|
| V3 | CONVE | RTED FROM V2 RCRAINFO | |

^{*} Note: Penalty amount may not reflect all violations cited.

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FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

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Description of codes used on the report:

| Enforcement Type | Enforcement Description | |
|------------------|--------------------------------|--|
| 120 | WRITTEN INFORMAL | |
| 210 | INITIAL 3008(A) COMPLIANCE | |
| 310 | FINAL 3008(A) COMPLIANCE ORDER | |

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^{*} Note: Penalty amount may not reflect all violations cited.